



**KPSEA ALL STRANDS AND SUBSTRANDS TOPICALS**



# **GRADE 6 TOPICAL QUESTIONS**

# **MATHEMATICS**

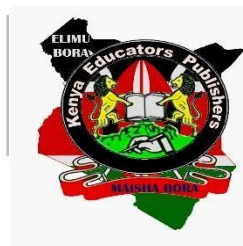
**VOLUME 1**

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*A Series of Revision Assessment Questions for each and every Strand & Sub-Strand prepared by top KPSEA KNAC Examiners.*

*Perhaps, The questions are meant to enhance the learners' content mastery and revision purposes as well*

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# **GRADE 6 TOPICAL REVISION QUESTIONS.**

## **MATHEMATICS.**

### **STRAND 1: NUMBERS**

#### **TOPICAL QUESTIONS**

#### **NUMBERS**

#### **Practice Exercise 1**

1. Complete the place value chart below

	Millions	Hundred of Thousands	Tens of Thousands	Thousands	Hundreds	Tens	Ones
a. 8,432,517	-	-	-	-	-	-	-
b. 743,250	-	-	-	-	-	-	-
c. 7,384,296	-	-	-	-	-	-	-
d. _____		8	4	6	7	9	2
e. _____	1	3	4	9	8	5	7

2. Give the place value of digit 8 in the following



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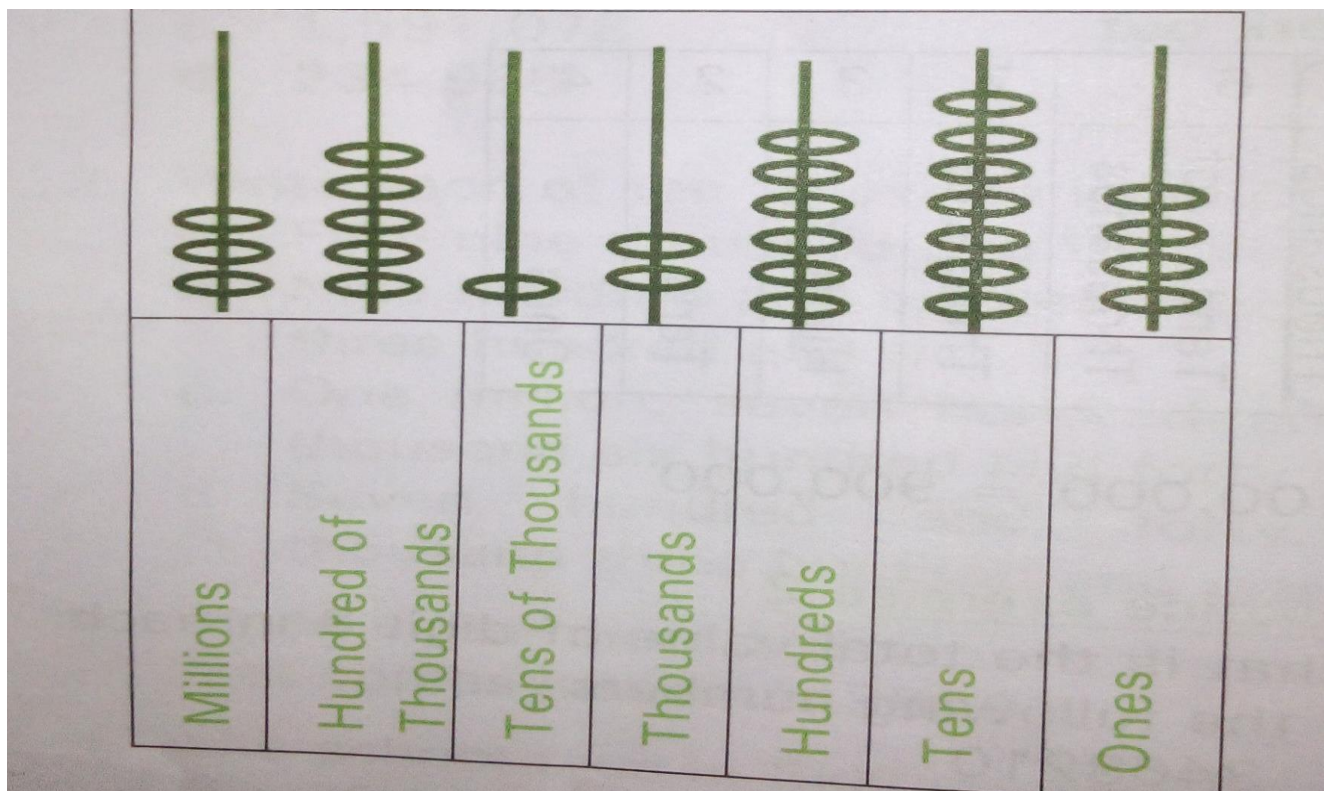


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- a.5,834,962
- b.8,210,354
- c.4,132,785
- d.548,729

3.Use the abacus to answer the questions below





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- a. Write the number in abacus in symbol
- b. Give the place value of digit 3

**Practice exercise 2**

- 1. What is the total value of digit 3 in each of the following numbers
  - a. 3468210
  - b. 593482
  - c. 734815
  - d. 493651
  - e. 987324
  - f. 398520
- 2. The number of people tested positive of Covid 19 in China in the 2021 were 8756439 .What is the total value of digit 7 in the number tested positive.
- 3. Give the total value of 6 in 6732014?

**Practice exercise 3**

- 1. Write the following numbers in words
  - a. 534832
  - b. 307590
  - c. 984753
  - d. 1795315
- 2. Use the digits 85416 and 2 to form five different six digit number.
  - a. Write in symbols and words the smallest number formed
  - b. Write in symbols and word the largest number formed.



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3. Write in symbols and words the following numbers

- a. 5 hundreds of thousands, 8 tens of thousands 4 thousands 6 hundreds 0 tens and 3 ones
- b. 3 hundreds of thousands, 0 tens of thousands 5 thousands 8 hundreds 0 tens and 0 ones
- c. 7 hundreds of thousands 0 tens of thousands 0 thousands 1 hundreds 5 tens and 3 ones and 0 ones
- d. 8 millions 3 hundreds of thousands 2 tens of thousand 0 thousands 1 hundreds 0 tens 0 ones.

**Practice exercise 4**

1. Write the following numbers in words:

- a. 888,880
- b. 246,943
- c. 1,591,078
- d. 234,968

2 Write each of the following in symbols

- a. Fifty nine thousand and twelve
- b. Nine hundred and eighteen thousand, three hundred and five
- c. One million, seven hundred and ten thousand six hundred and forty three
- d. Seven hundred and forty one thousand three hundred and one

3. Write in the numbers and words the number that comes just after 99999

4. The school fees in Bidii primary school is shs. 78,500 per year. How much did Kayo pay in the year 2021 in words.



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**Practice exercise 5**

1. Arrange each of the following groups of numbers in ascending order

a. 978 492 653 878 592

b. 1343 7443 8434 9239 6794

c. 35634 53674 68794 38783 43596

d. 175678 375483 487678 499787 289476

2. Five farmers harvested wheat as follows:-

Sema 787,000kg, Kweli 987,000kg, Zura 847,000kg, Tesi 343,000kg and Ali 589,000kg

Arrange the mass of wheat from the smallest to the largest.

3. Use the digits 9, 2, 4, 3, 7 and 8 to form four numbers with six digits

Arrange the numbers from the smallest to the largest

**Practice exercise 6**

1. Arrange the following groups in descending order.

a. 979, 787, 894, 623

b. 3343, 6349, 5436, 7521, 8349

c. 79090, 68124, 39433, 48321, 31341,

d. 349684, 694317, 989621, 709432, 523984

2. The number of vaccinated people in five counties were as follows:-

984639, 597841, 697342, 734700, 494870. Arrange the number in descending order.

3. Use digit 2, 9, 5, 7, 8 and 1 to form four numbers with six digits. Arrange numbers in a decreasing order.

**Practice exercise 7**

1. Round off each of the following to the nearest hundreds





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- a. 72
- b. 84373
- c. 5392
- d. 924
- e. 1839
- f. 9953

2. Round off each of the following to the nearest thousands

- a. 783
- b. 92349
- c. 79973
- d. 24913
- e. 3953
- f. 8293

3. During the holiday mother spent sh. 35,450 to buy a laptop. How much did mother spend on the laptop to the nearest thousands.

4. Our school water tank was bought for sh. 9734. What was the cost of the school's water tanker to the rounded off to the nearest 1,000?

5. Kenya received 795,798 vaccines in the month of June. How many vaccines did Kenya receive when rounded off to the nearest 1,000.



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**Practice exercise 8**

1. What is the square of

- a. 7
- b.11
- c. 35
- d.18

2.Work out

- a. 8
- b.61
- c.39
- d.43

3.What is the sum of the squares of 5 and 8?

4.What is the difference of squares of 31 and 25

5What is the area of a squared kitchen garden whose side measures 38m?

6.Complete the table below by filling in the square of numbers given.

	Number	Square
a	28	
b	11	
c	42	
d	79	

**Practice exercise 9**

1. What is the square root of





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a. 784

b. 1225

c. 576

d. 256

2. Work out

a.  $\sqrt{49}$

b.  $\sqrt{144}$

C.  $\sqrt{196}$

d.  $\sqrt{900}$

3. When I squared a number i got 169 what number did i square?

4. The area of our squared classroom is 121 m<sup>2</sup>. What is the measure of one of the sides?

5. A squared piece of wood has an area of 484cm<sup>2</sup>? what is the length of one side?

## **MULTIPLICATION**

### **Practice exercise 1**

1. Give the missing numbers

a.  $98 \times 22 =$

$22 \times 98 =$  \_\_\_\_

$2156 \div 98 =$

$22 \times 2156 \div \dots = 98$



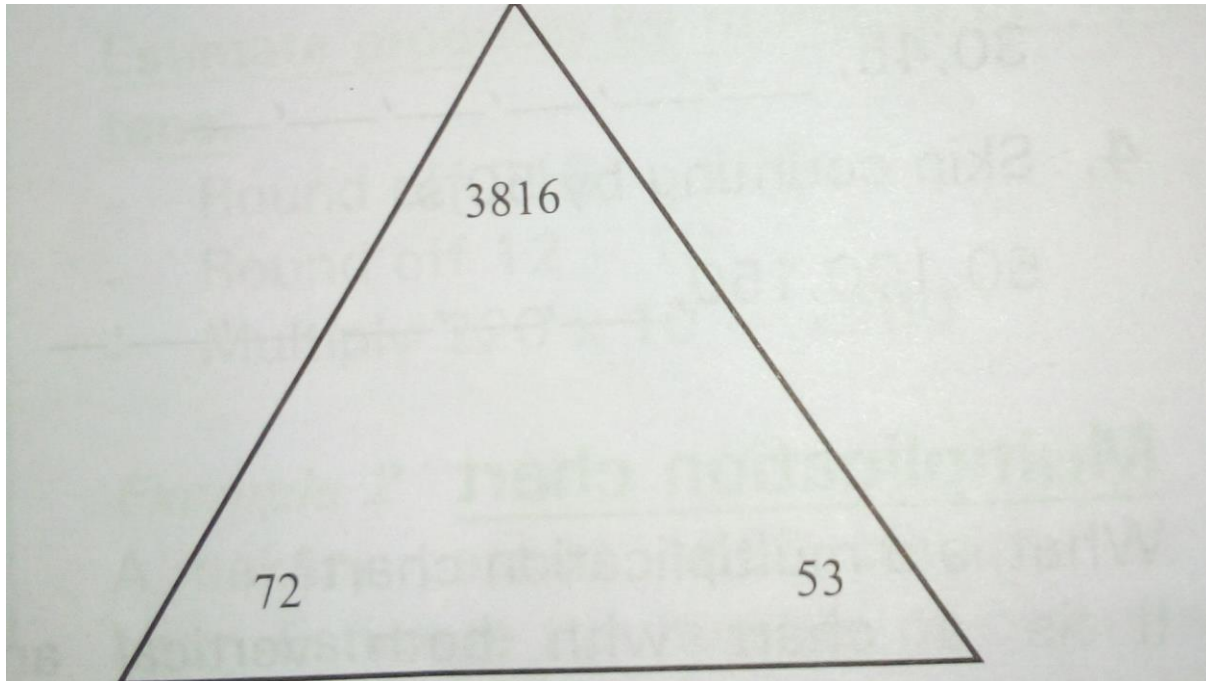
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2. Create fact families from the given numbers 3816 72 53



**Practice exercise 2**

1. Skip counting by 7's

1. 21,28,....., ....., ....., ....., .....

2. Skip counting by 12's 12,24, ....., ....., ....., .....

3. Skip counting by 15's 30,45,....., ....., ....., .....

4. Skip counting by 50,s 50,100,150,....., ....., ....., ....., .....

**Practice exercise 3**

1. Use the multiplication chart to answer

a.  $14 \times 13 = \_$

b.  $12 \times 15 =$

c.  $9 \times 15 =$



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d.  $14 \times 8 =$

e.  $13 \times 5 =$

f.  $12 \times 13 =$

2. The Classroom has 14 desks in each row. if there are 5 row in the class. How many desks are in class?

3. There are 15 teachers in the staffroom. Each teacher was given 13 books. How many books were issued to the teachers.

4. In the year 2021, every month Juzi bought 14 cows, how many cows did he have by the end of the year.

#### **Practice exercise 4**

1.

a.  $133 \times 24 =$

b.  $313 \times 15 =$

C.  $132 \times 14 =$

d.  $2241 \times 18 =$

e.  $2341 \times 21 =$

f.  $1235 \times 34 =$

2. The chief held a meeting at the hall. There were 4,112 people present. Each person registered at the gate with sh. 25. How much was collected from the meeting held.

3. In Ture sub-county there are 4312 daily farmers. Each farmer takes 15

litres of milk every day to the factory. How many litres did the factory receive on Wednesday?

4. A school has 53 teachers. The teachers contributed ksh 2545 for a trip. How much money was collected from the teachers.

5. Juzi spends sh. 1750 on electricity bill every month. How much will he spend in two years.

#### **Practice exercise 5**

1. Estimate product by rounding off each number to the nearest 10



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a.  $111 \times 47 =$

b.  $1759 \times 31 =$

c.  $453 \times 71 =$

d.  $148 \times 22 =$

e.  $1512 \times 13 =$

f.  $247 \times 39 =$

2. A lorry carried 1893 pieces of wood in one trip. What is the estimate number of pieces of wood carried in 38 trips?

3. A school planted 23 rows of carrots in a shamba. Each row had 1345 Carrots. Estimate the number of Carrots in the school shamba.

4. A school spend sh. 1984 on Stationery in a term. Estimate the amount spent in 6 terms.

Practice exercise 6

a. 20, 40, 60, 80.  $\_$ ,  $\_$

b. 110, 121, 132, 143,  $\_$ ,  $\_$

c. 150, 300, 450, 600,  $\_$ ,  $\_$

d. 230, 460, 690, 920,  $\_$ ,  $\_$

e. 361, 400, 441, 484,  $\_$ ,  $\_$

f. 50, 100, 150, 200.  $\_$ ,  $\_$

## **DIVISION**

### **Practice exercise 1**

1. Work out:

a.  $1469 \div 23$

b.  $2324 \div 37$

c.  $1324 \div 17$



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d.  $3900 \div 26$

e.  $3780 \div 27$

f.  $1506 \div 19$

2. The teacher had 252 books. He share the books equally among 14 pupils. How many books did each pupil get?

3. A shop has 44 shelves. The shopkeeper arranged boxes equally on the shelves. If the boxes are 484. How many boxes are on each shelf.

4. A farmer harvested 184 bananas. He arranged them in 27 equal piles. How many bananas remained?

#### **Practice exercise 2**

1. Estimate quotient by rounding off the divided of the divisor to the nearest 10

$$3876 \div 38 =$$

$$4862 \div 14 =$$

$$2134 \div 18 =$$

$$1604 \div 21 =$$

2. Juzi reads 1595 words in 17 minutes. Estimate the number of words that juzi can read in a minute
3. Mali had 4876 packets of maize flour. He arranged the packets in bales of 12 packets each. Estimate the number of bales he got.
4. In a staff meeting, 45 teachers contributed an equal amount of money for a party. The total amount collected was 8798. Estimate the amount of money collected from each teacher
5. There are 549 books in the store. One box holds 49 bags. Estimate the number of boxes that can hold all the books.



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**Practice exercise 3**

1. Work out

a.  $196 \div 14 \times 51 \div 12 - 59 =$

b.  $288 \div 4 \times 29 \div 152 - 104 =$

c.  $1449 \div 7 \times 23 \div 215 - 136 =$

d.  $875 \div 7 \times 184 \div 52 =$

e.  $56 \div 7 \times 5 - 9 =$

2. If kesho has 4850 hens. He shared them among his 5 sons. After one year each son was added 50 more hen. How many hen did each son have?

3. Moses has 140 books. He shared the books among 7 learners. Each learner paid for the books given. How much did each learner pay if each book costed sh. 10.

**FRACTIONS**

**Practice exercise 1**

1. What is the LCM of

a. 15, 18 and 30

b. 12 and 28

c. 3, 8 and 12

d. 15, 20 and 40

e. 12, 15 and 30

2. Find the smallest number that can be divided by 14 and 42 without a remainder.

3. Three bells ring at intervals of 4 minutes, 6 minutes and 8 minutes respectively. After how long will they ring together.

4. What is the shortest possible length of timber from which equal pieces measuring 20cm and 36cm can be cut?



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5. What is the smallest number which is divisible by 15, 18 and 12.

#### **Practice exercise 2**

1. Work out

a.  $\frac{1}{3} + \frac{1}{4} + \frac{1}{16} =$

b.  $\frac{1}{3} + \frac{5}{6} =$

c.  $\frac{2}{5} + \frac{1}{4} =$

d.  $\frac{2}{7} + \frac{1}{3} + \frac{1}{14} =$

e.  $\frac{1}{5} + \frac{1}{6} + \frac{1}{2} =$

f.  $\frac{1}{3} + \frac{1}{4} + \frac{1}{8} =$

2. Three people went to buy meat. One bought  $\frac{1}{2}$  kg of meat, another bought  $\frac{1}{5}$  kg of meat and the other one bought  $\frac{1}{8}$  kg of meat. How much meat did they buy altogether?

3. In an art lesson Leo mixed  $\frac{2}{3}$  litres of yellow paint  $\frac{1}{8}$  litre of blue paint and  $\frac{1}{4}$  litre of turpentine. How much paint did he make?

4. Kwanini gave three eighths of his money to his son and one sixth to his daughter. What fraction of the money did he give away altogether?

9. June got  $\frac{1}{5}$  and July got  $\frac{1}{4}$  of a piece of Cake. What fraction of the cake did they get altogether.

#### **Practice exercise 3**

1. Work out

a.  $\frac{5}{6} - \frac{2}{5} - \frac{1}{9}$

b.  $\frac{5}{6} - \frac{3}{8} =$

c.  $\frac{1}{3} - \frac{1}{7}$

d.  $\frac{7}{12} - \frac{1}{4} - \frac{1}{9}$

e.  $\frac{5}{6} - \frac{1}{8} - \frac{5}{12}$





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f.  $5/9 - 4/27$

2. Subtract five tenths from three quarters

3. Juni had  $7/12$  m length of String, he cut off  $3/8$  of the metres from it. What length was he left with?

4. If a bottle holds  $3/4$  litres of oil. Mother cooked chips with  $1/5$  of the oil in the bottle. How much oil was left in the bottle.

5. Subtract  $1/12$  and  $7/20$  from  $11/15$

**Practice exercise 4**

Work out

a.  $2/8 + 3\ 5/8 =$

b.  $3\ 3/8 + 12\ 1/4 =$

c.  $2\ 1/4 + 5\ 1/2 =$

d.  $14 + 3\ 5/8 =$

2. A shopkeeper packed rice in 3 packets with the mass as follows  $24\ 1/3$  kg,  $10\ 1/2$  kg, and  $15\ 1/4$ . What was the mass altogether?

3. Juma prepared tea with 2litres of water and  $7\ 1/3$  litres of milk. How many litres did he use in tea preparation?

4. Grade 6 pupils come with cooking oil for Homescience project. Group A had  $6\ 1/3$  kg Group B  $4\ 1/2$  kg and Group C  $5\ 1/5$ kg. How many kg did the class have for the project?

**Practice exercise 5**

1. Work out

a.  $21\ 7/8 - 5\ 3/4$

b.  $10 - 7\ 8/10$

c.  $9\ 5/8 - 3\ 1/4$

d.  $2\ 5/7 - 2/7$

e.  $3\ 1/6 - 1\ 1/3$



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2. Juma took  $7\frac{5}{6}$  litres of milk from a dairy. He used  $2\frac{1}{2}$  of the milk to prepare tea. How much milk remained.
3. Subtract  $5\frac{2}{13}$  from  $8\frac{7}{13}$
4. Mother bought  $18\frac{1}{2}$  kg of meat, if  $12\frac{1}{8}$  kg was used in cooking pilau. What mass of Meat was left?

**Practice exercise 6**

Find out the reciprocal of the following

1.  $\frac{3}{4}$
2.  $8\frac{3}{5}$
3.  $2\frac{3}{7}$
4.  $\frac{8}{27}$
5.  $12\frac{5}{6}$
6.  $9\frac{1}{7}$
7.  $5\frac{3}{7}$
8.  $10\frac{3}{5}$
9.  $7\frac{3}{7}$
10.  $5\frac{3}{8}$

**Practice exercise 7**

1. What is the square of
  - a.  $\frac{3}{8}$
  - b.  $\frac{5}{7}$
  - c.  $\frac{11}{13}$
  - d.  $3\frac{2}{3}$
  - e.  $2\frac{6}{7}$



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f.  $5\frac{7}{9}$

2. What is the area of a square whose side is  $4\frac{2}{7}$ m

3. What is  $(2\frac{2}{5})^2$

4. What is  $(\frac{4}{7})^2$

**Practice exercise 8**

1. Write the missing number in?

a.  $\frac{3}{7} = \dots/14$

b  $6/\dots = 24/44$

C.  $3/8 = \dots/32$

d.  $9/11 = \dots/55$

e.  $8/25 = \dots/100$

f.  $27/50 = \dots/100$

2. Write an equivalent fraction of the following

a.  $1/7$

b.  $9/13$

C.  $7/15$

3. Give an equivalent fraction of the following with 100 as a denominator.

a.  $11/20$

b.  $3/5$

c.  $6/10$

**Practice exercise 9**

1. Express the following percentage into fractions



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- a. 24%
- b. 55% ,
- c. 7%
- d. 39%
- e. 84%
- f. 66%

2. Jane's phone was charged to 52%. What fraction was the battery charged?

3. Peter was downloading a window's program in the tablet. The tablet shutdown when the program was 86%. What fraction of downloading was the programme.

4. Which one is greater?

- a. 33% Or 33/100
- b. 25% or 52/100
- c. 50% or 5/100

**Practice exercise 10**

2. Write down the missing numbers

- a.  $7/10 = \dots/100 = \dots\%$
- b.  $39/50 = \dots/100 = \dots\%$
- c.  $19/25 = \dots/100 = \dots\%$
- d.  $1/2 = \dots/100 = \dots\%$
- e.  $5/50 = \dots/100 = \dots\%$

3. Express the fractions below as percentage

- a. 13/100
- b. 8/25



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- c. 11/50
- d. 32/50
- e.3/20
- f. 6/10

**DECIMALS**

**Practice exercise 1**

1. Complete the given table by giving the place value

	Tens of thousands	Thousands	Hundreds	Tens	Ones	Decimal point	Tenths	Hundredths	Thousandths	Ten Thousandths
53.08										
0.3012										
348.089										
98.9843										
0.167										



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2. What is the place value of digit underlined, in each question

- a. 125.689
- b. 4.869
- c. 0.0583
- d. 1734.528
- e. 391.0725
- f. 57.8912

3. How many hundredths are there in the number 28.579

4. How many ten thousandths are there In number 17.4768

5. How many tenths are there in the number 58.279

**Practice exercise 2**

1. Round off the following decimals correct to 1 decimal place.

- a. 76.48
- b. 8.97
- c. 31.320

2. Round off the following decimal correct to 2 decimal place.

- a. 921.6
- b. 53.743
- c. 249.655

3. Round off the following decimal correct to the number of decimal places shown in the brackets. (d.p) decimal point.

- a. 7.47 (1 d.p)
- b. 68.5834 (3 d.p)



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c. 0.98 (1.d.p)

d. 50.497 (2 d.p)

4. The marks of music projects were 131.849 for group C. Round off the marks to the correct to two decimal places.

5. The mean weight of three boys is 42.6849 round off to the mean correct to 3 decimal places.

**Practice exercise 3**

1. Convert the following decimals into fractions

a. 0.75

b. 2.4

c. 0.44

d. 0.04

e. 3.50

f. 12.25

2. The length of a ribbon is 13.50 metres. Convert the length into fractions.

3. The weight of a bunch of bananas is 7.125 kgs. What is the weight in fractions.

4. When baking a cake, mother used 15.20 litres of milk. What is the capacity of the milk used in fractions

**Practice exercise 4**

Using e uivalent fraction with denominator 100. Convert the fraction into decimals

b.  $\frac{3}{5}$

c.  $\frac{6}{10}$

d.  $\frac{3}{4}$

e.  $\frac{6}{25}$

f.  $\frac{12}{1000}$





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g. 49/50

**Practice exercise 5**

- Express the following as percentage
  - 0.59
  - 0.01
  - 2.7
  - 0.4
- Mali lost 0.88kg in the gym every day. What is the lost kilograms in percentage
- Bidii primary school spent 0.8 of the money to buy masks for all the staff and learners. What percentage of the money is used on mask.
- 0.48 of the pupils in school go to School using the school bus. What percentage of learners use the school bus to get to school?

**Practice exercise 6**

- Convert the following percentage into decimals
  - 160%
  - 20%
  - 1%
  - 98%
  - 72 %
  - 30%
  - 215%



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h. 4%

2. In our county 79% of the population is vaccinated against Covid 19. Express the number of people vaccinated into decimals

3. A factory produces masks. 62% of the masks are for the kids. Express the number of masks produced for kids in decimals.

4. Convert 32% into decimals.

**Practice exercise 7**

1. Work out

a.  $26.48 + 0.23 =$

b.  $197.83 + 1.05 + 0.763 =$

c.  $0.68 + 50 + 256.04 =$

2

a.  $64.35 - 34.19 =$

b.  $9.04 - 0.3 =$

c.  $50 - 25.49 = .$

3.

a.  $4.85 - 2.07$

b.  $5.004 + 32.31 + 0.32$

c.  $1.1 + 10.5 + 9.8$

4. What is the difference 15.004 and 7.675 between

5. 4 parcels weigh 4.25kg, 6.125kg, 9.052kg and 14.75kg. What is their total mass?

6. Mother bought 35.62kg of rice. She used 14.95kg of rice in cooking pilau. How many kg remained.



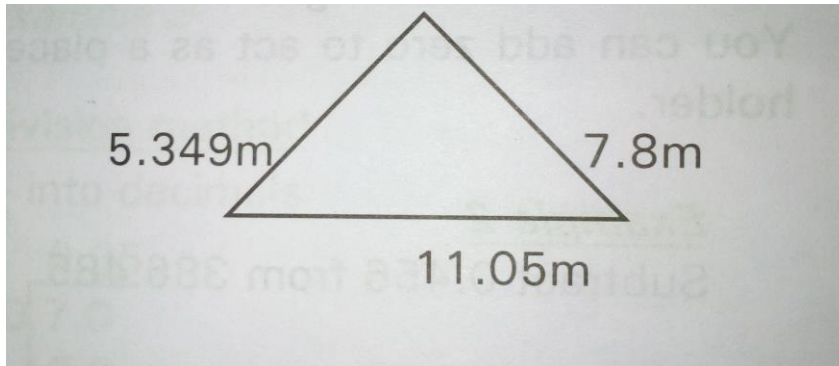
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7. what is the perimeter



**STRAND 2: MEASUREMENT**

**MEASUREMENT**

**Length**

**Practice exercise 1**

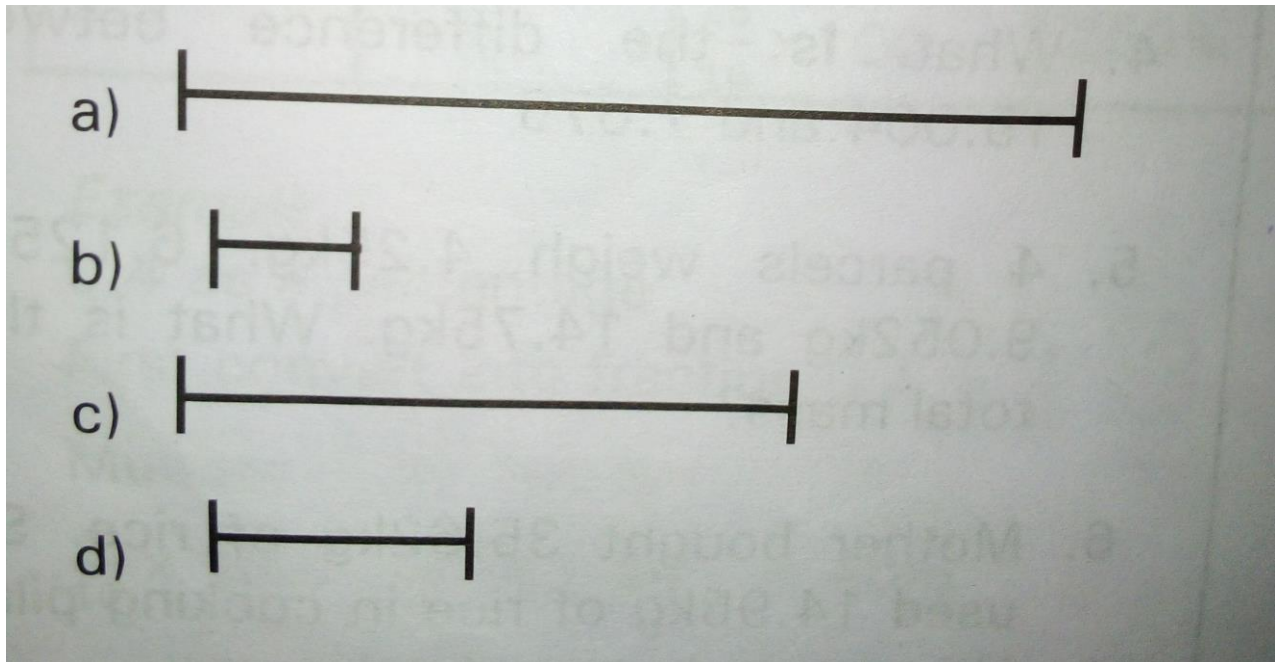
- Using a ruler draw the following lines
  - 20mm
  - 25 mm
  - 10mm
  - 5cm 6mm
  - 40mm
- Measure lines below using a ruler, give answer in mm



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- a)
- b)
- c)
- d)

3. Tick ✓ the unit of measuring

	Description	mm	Km
a.	Distance from school to home		
b.	A drawn line on a paper		
c.	Length of a finger nail		
d.	Distance from school to hospital		

**Practice exercise 2**

1. Convert the following into millimetres



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- a. 18cm
  - b. 27cm
  - c. 20cm
  - d. 18cm 7mm
  - e. 72cm 9mm
  - f. 110m 3mm
2. The baby's finger measures 3cm 3mm what is the length in milimetres
  3. The roll of thread measures 175cm 8mm. What is the length in mm (Milimetres)
  4. My exercise book measures 30cm 4mm. What is the length in milimetres.
  5. Joan's foot measures 13cm 8mm. What is the length in mm.

**Practice exercise 3**

1. Convert mm into cm and mm
  - a. 19mm
  - b. 45mm
  - c. 253mm
  - d. 875mm
  - e. 108mm
  - f. 175mm
2. Juzi's hand is 294mm long. What is the length in cm and m
3. The cable of my Laptop charger is 378mm. what is the length of the cable in cm and mm
4. What is the length in cm for a book whose length is 389mm



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**Practice exercise 4**

1. Work out

a.  $3\text{cm } 4\text{mm} + 7\text{cm } 3\text{mm} =$

b.  $12\text{cm } 6\text{mm} + 8\text{cm } 9\text{mm} =$

c.  $32\text{cm } 8\text{mm} + 20\text{cm } 5\text{mm} =$

2. a)  $\text{cm mm } 85 + 118$

b)  $\text{cm mm } 158 + 77$

(c)  $\text{cm mm } 237 + 115$

3. Three learners had different lengths of thread. Juni  $13\text{cm } 5\text{mm}$ , Jana  $5\text{cm } 2\text{mm}$  and Ali  $18\text{cm } 9\text{mm}$ . What is the length of all the threads?

4. A tailor had two ribbons  $18\text{cm } 5\text{mm}$  long and  $12\text{cm } 9\text{mm}$ . What is the length of all the ribbons?

**Practice exercise 5**

1. Work out

a.  $9\text{cm } 8\text{mm} - 5\text{cm } 3\text{mm} =$

b.  $12\text{cm } 6\text{mm} - 8\text{cm } 8\text{mm} =$

c.  $78\text{cm } 2\text{mm} - 28\text{cm } 8\text{mm} =$

2.  $\text{cm mm } 585 - 132$

$\text{cm mm } 172 - 99$

$\text{Cm mm } 122 - 79$

3. A carpenter had a piece of wood measuring  $73\text{cm } 9\text{mm}$ . He used  $14\text{cm } 8\text{mm}$ . What length of piece of wood remained.

4. Juni had a ribbon measuring  $15\text{cm } 5\text{mm}$ . he used  $9\text{cm } 9\text{mm}$ .

5. Subtract  $19\text{cm } 2\text{mm}$  from  $21\text{cm}$



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**Practice exercise 6**

1. Work out 14cm 4mm multiply by 2
2. Multiply 17cm 2mm by 3
3. 8cm 5mm x 10
4. Kamau had 7 ribbons. Each ribbon measured 12cm 8mm. What is the - length of all the ribbons together?

**Practice exercise 7**

1. A plumber had a pipe measuring 36cm 5mm. He divided the pipes equally. What is the length of each part if the parts were 5?
2. Work out 18cm 4mm divide by 2 is
3.  $8 \sqrt{9\text{cm } 6\text{mm}}$   
 $5 \sqrt{1\text{cm } 5\text{mm}}$
4.  $4 \sqrt{22\text{cm } 4\text{mm}}$   
 $5 \sqrt{14\text{cm } 5\text{mm}}$
5. Juzi cut threads into 9 equal parts if . the thread's length was 50cm 5mm. what was the length of each thread?

**Practice exercise 8**

1. Find the circumference of the circles below.

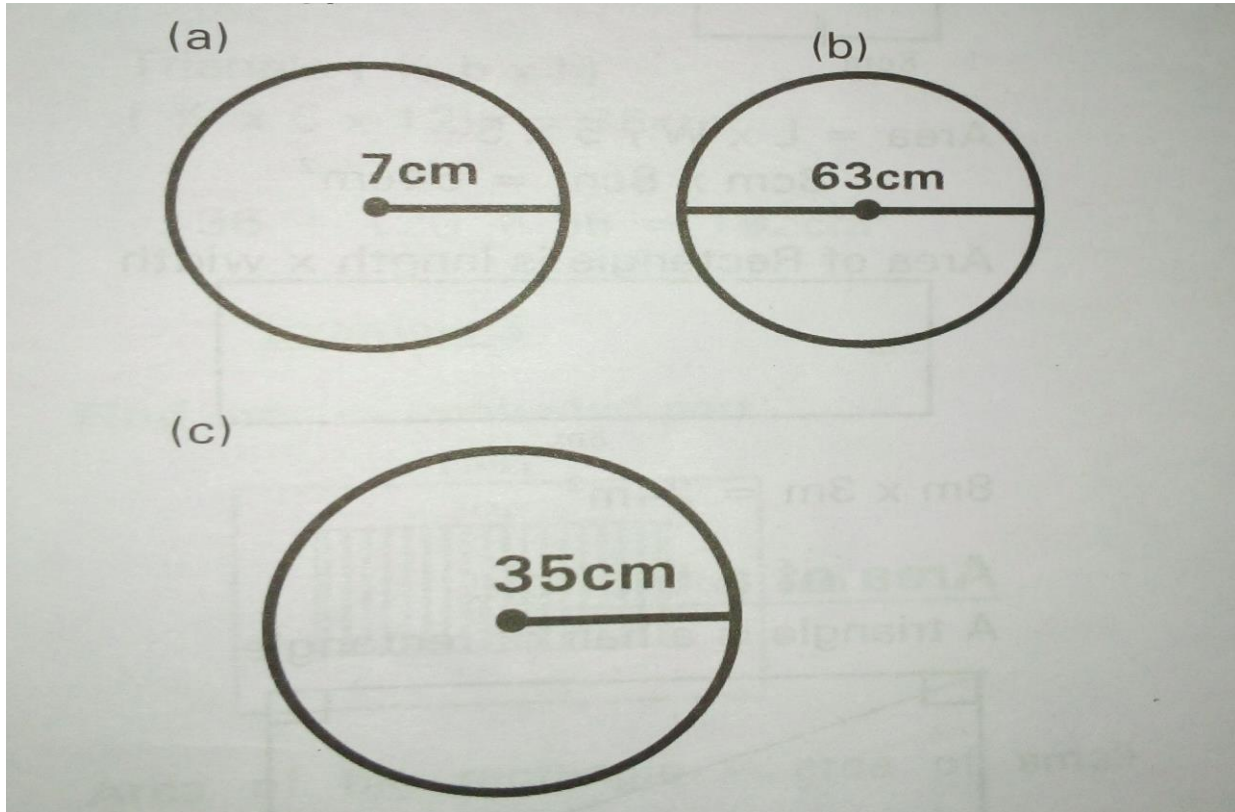




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2. Toms toy bicycle wheel has a radius of 14cm. what is the circumference of the toy bicycle wheel.
3. Joy’s bottle has a radius of 21cm. what is the circumference of the bottle
4. Complete the table Circle diameter radius circumference

Kiwi 14 ..... ..

Cup 7 ..... ..

Sufuria ..... 49cm .....



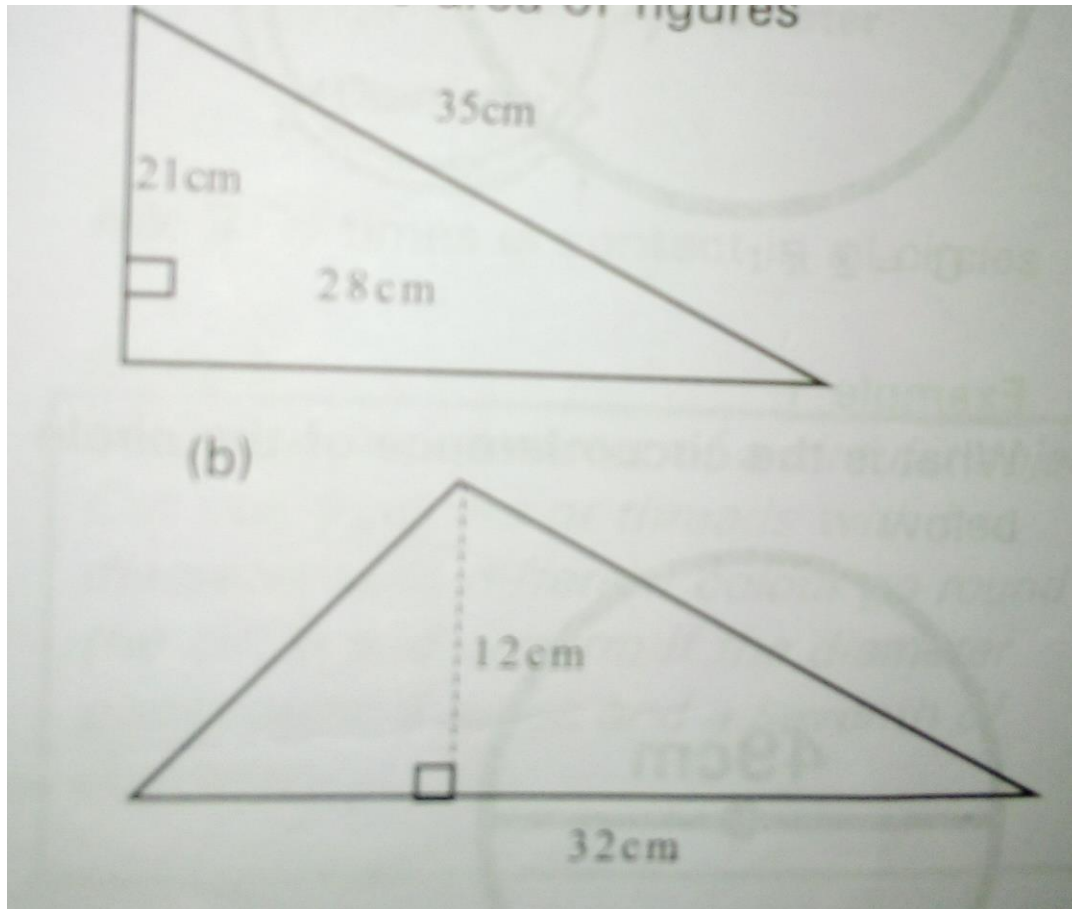
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**AREA**

**Practice exercise 1**

1. Find the area of figures



2. The area of a triangular field is  $546\text{m}^2$ . If the height is 26m. What is the base of the field?

3. Find the area of a triangle with base 24cm and height 9cm.



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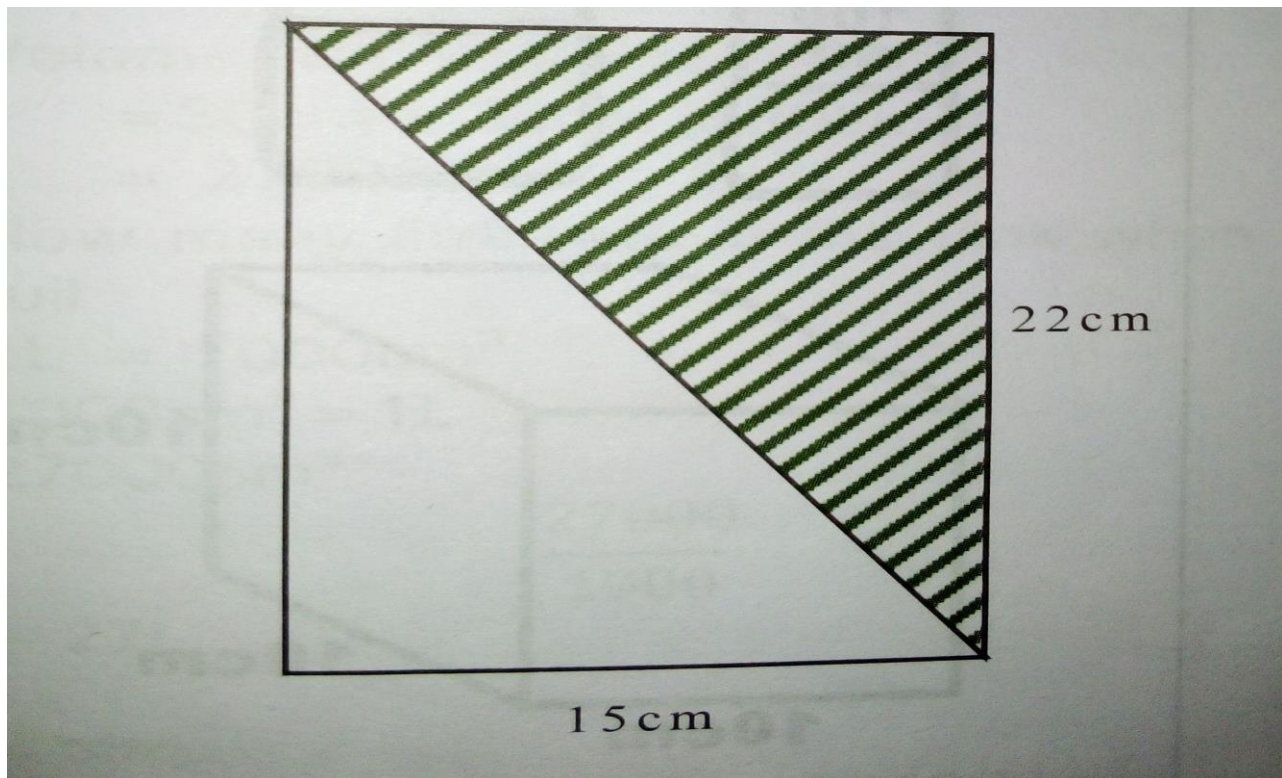
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3. Fill in the table below.

Triangle	Base	Height	Area
A	20cm	9cm	90cm <sup>2</sup>
B	28cm		140cm <sup>2</sup>
C		10cm	70cm <sup>2</sup>
D	24cm	32cm	
E	18cm	21cm	

5. What is the area of the shaded triangle



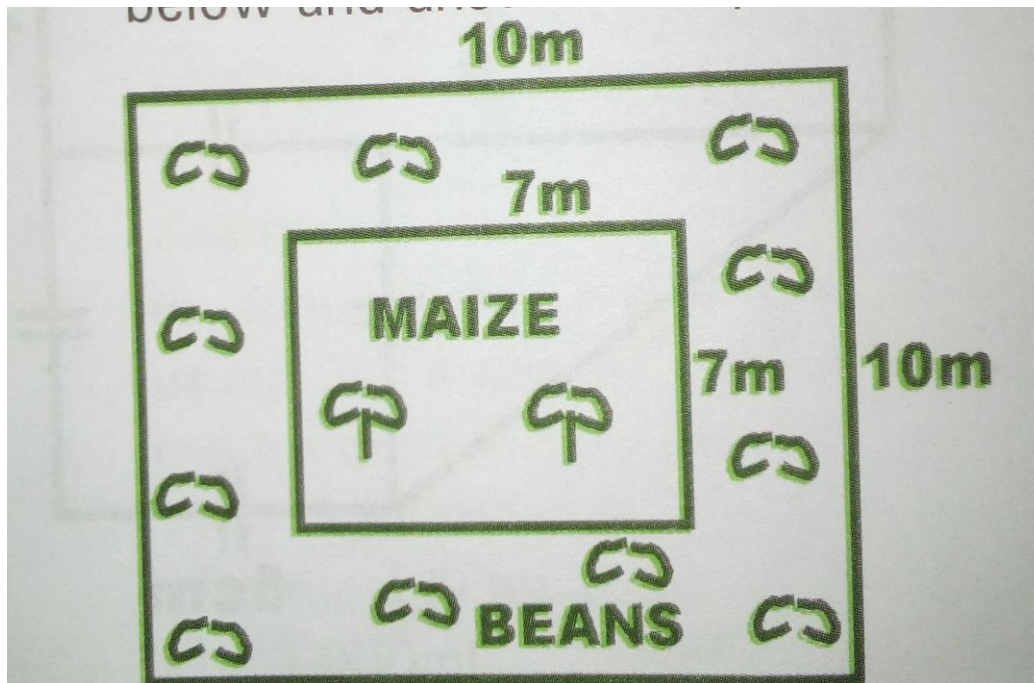


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**Practice exercise 2**

1. Juma planted beans and maize in his squared piece of land. Look the figure below and answer the questions



- What is the area of the piece of land?
- what area did he plant maize?
- What area did he plant beans?





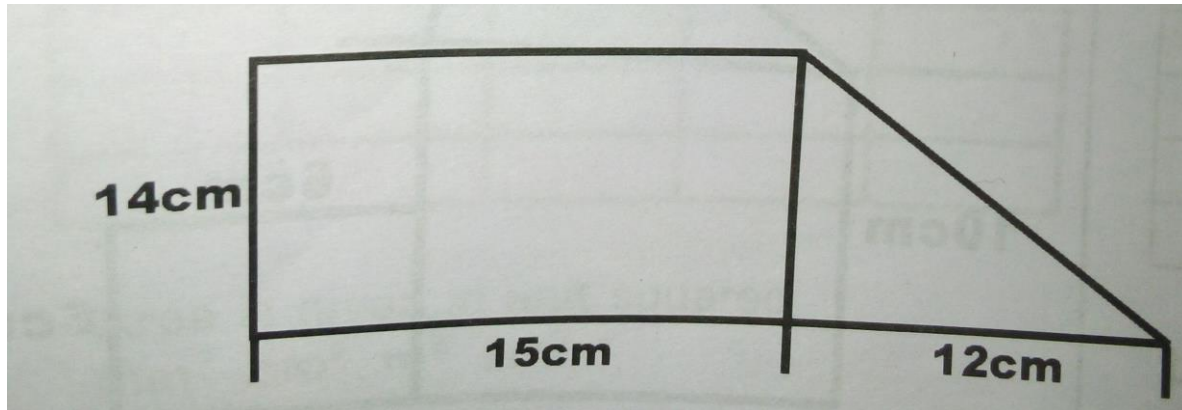
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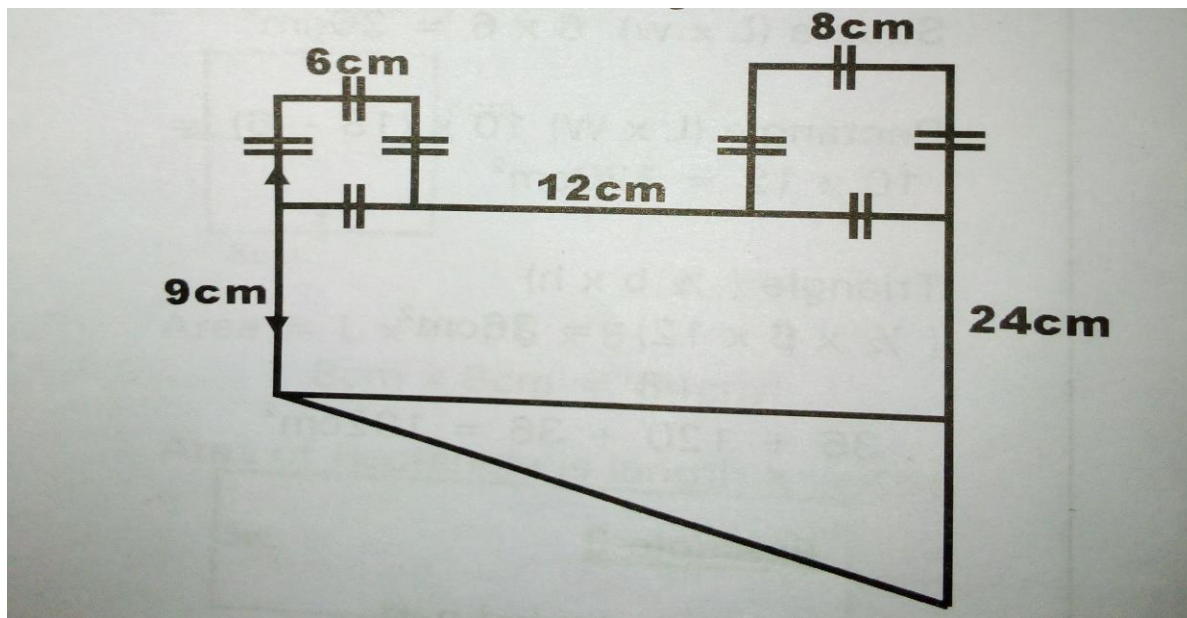
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2. Find the area of figures below



3. An artist drew the figure below. What is the area of the figure?



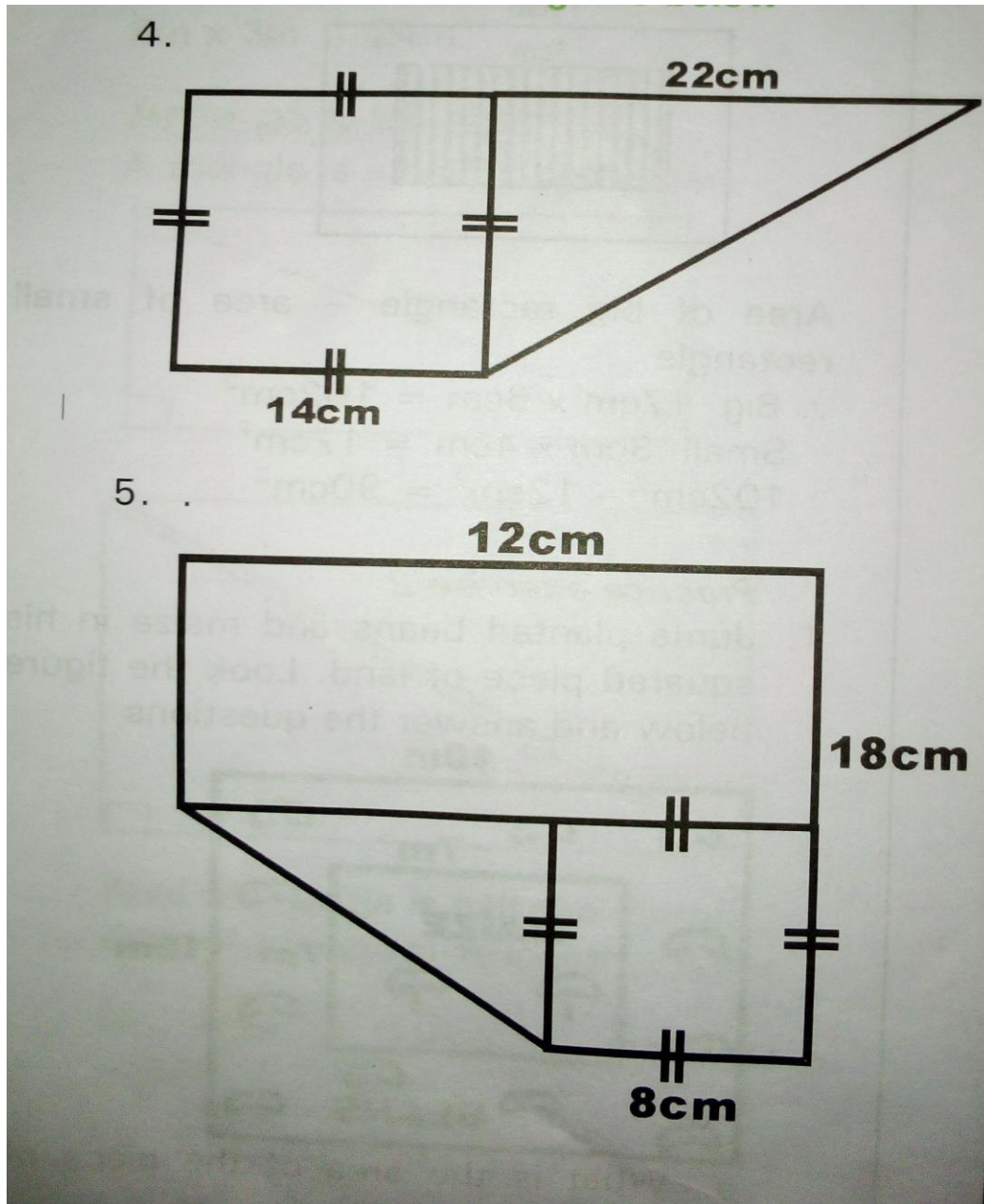


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4 Find area of the figures below





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**CAPACITY**

**Practice exercise 1**

1. Our school tank has a volume of  $81,000\text{cm}^3$ . How much water can it hold during the rainy session when it is full in litres?

$1\text{L} = 1000\text{cm}^3$

2. The hospital has two tanks. Tank one has a volume of  $27,000\text{cm}^3$  while tank two has a volume of  $24,000\text{cm}^3$ . How much water is held in the two tanks during the rainy session in litres.

3. Mr. Juzi collected water from a full tank, so as to wash the tank. The volume of the tank was  $85,000\text{cm}^3$ . How many litres did he collect from the tank?

4. The town tanks has 98L when full. What is the volume of the tank in  $\text{cm}^3$ ?

5. How many litres are in the tank whose volume is 20cm by 10cm by 30cm.

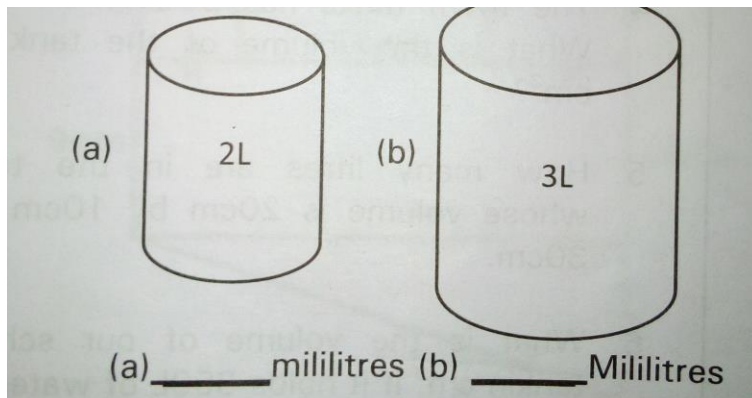
6. What is the volume of our school tank in  $\text{cm}^3$  if it holds 350L of water?

7. What is the volume of this tank in  $\text{cm}^3$ , It can hold 144 litres of water?

8. Peter bought a tank to use for his car wash, if the tank held 136 litres of water when full. What is the volume of the tank in  $\text{cm}^3$ ?

**Practice exercise 2**

1. Convert the following into millilitres







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- (a) \_\_            millilitres  
(b) \_\_            Mililitres

2. Convert the following 'litres into millilitres

- a  $18\frac{1}{2}$ L  
b  $5\frac{1}{4}$ L  
c.9L  
d.  $10\frac{3}{4}$  L

3. Convert the following litres and Mililitres into millilitres

- a. 5L 250MI  
b. 99L 999MI  
c. 43L 605MI  
d. 13L 900MI

4. Juzi drank 2L 168ml of water. How many millilitres of water did he drink?

5. A chef used  $2\frac{1}{4}$  L of cooking to cook chips. How many millilitres of oil did he use?

**Practice exercise 3**

1. Convert Mililitres into Litres

- a. 7000ML  
b. 45000ML  
c. 52000ML  
d. 3500ML



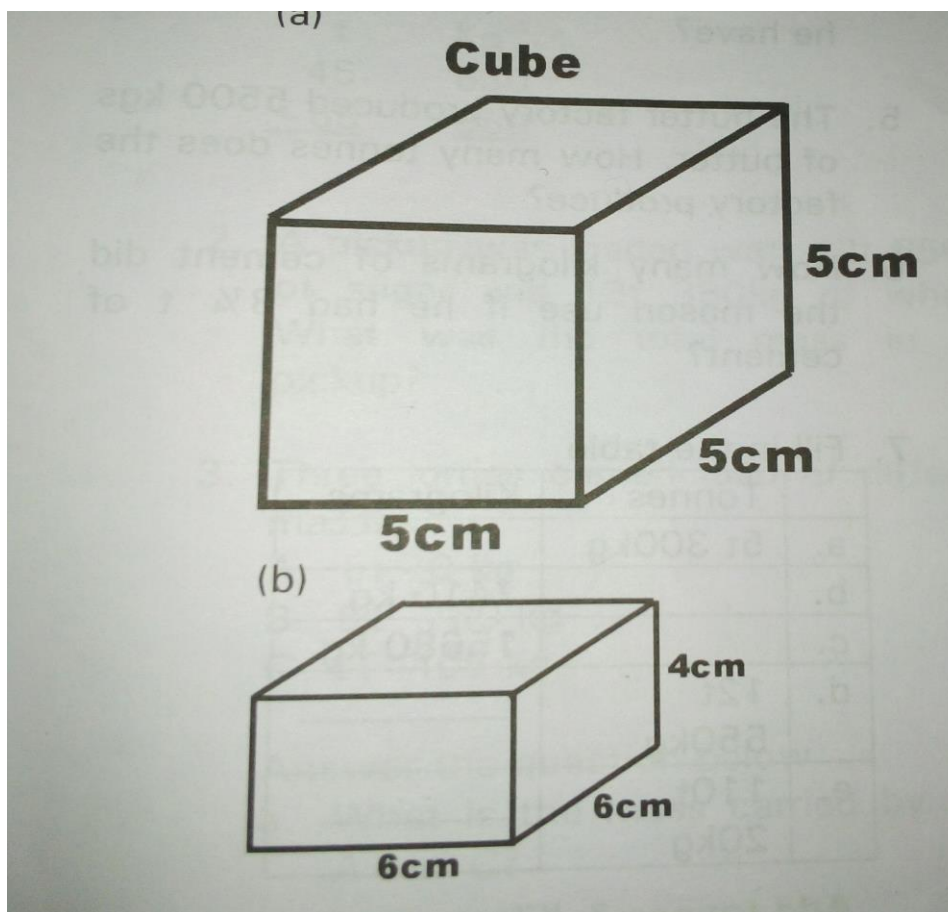
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2. The factory produces 35,750ml of Juice in an hour. How litre does the factory produce in one hour?
3. The business people packed water in bottles of 500ml. How many litres do the bottles hold?
4. How many litres are there in 150,000ml Jericans?
5. How many litres and Mililitres are there in 17211ml?

**Practice exercise 4**

1 Convert the following into mililitre,





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2. Convert the following into millilitres.

- (a)  $600\text{cm}^3$
- (b)  $13450\text{cm}^3$

3. During a games competition the school offered  $319,690\text{cm}^3$  of water to the players. How many millilitres were they?

4. A yoghurt company makes yoghurt using  $3,650\text{cm}^3$  of milk everyday. How many millilitres of water does the company make in a day?

**MASS**

**Practice exercise 1**

Identify the unit used in the table

Tick the unit

	Objects	Tonnes	Kilograms	Grams
1.	A lorry loaded with sand			
2.	A loaf of bread			
3.	A new born day			
4.	A car loaded with bags of rice			
5.	A grade six boy			
6.	A pencil			
7.	A packet of sugar			
8.	A loaded pickup with bags of maize			
9.	Piece of paper			
10.	Piece of meat from the butchery			



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**Practice activity 2**

1. Convert the following into Tonnes

- a. 18,000 kg
- b. 1500 kg
- c. 14,000 kg
- d. 7,500kg

2. Convert the following into Kilograms

- a. 17t
- b.  $3\frac{1}{2}$ t
- c.  $4\frac{1}{4}$ t
- d. 2t 350 kgs

3. In the gym Kip can lift % tonnes. How many kilogrammes does he lift in the gym?

4. A charcoal seller had 5 tonnes of charcoal. How many kilogrammes dig he have?

5. The butter factory produced 5500 kgs of butter. How many tonnes does the factory produce?

6. How many kilograms of cement did the mason use if he had  $3\frac{1}{4}$  t of cement?

**Practice exercise 3**

1. Work out t Kg 45 630 +55 850

2. A pickup was loaded with 12t 650kg of sugar and 13t 380kg of wheat. What was the total mass in the pickup?

3. Three lorries carried load of different masses

A 5t70kg

B 8T 760 kg

C 4T 405 kg



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Answer the question below

- a. What is the mass carried by lorry A and C?
- b. What is the mass carried by all the lorries?
- c. What mass did lorry B and C carry?

d.        T KG

11 584

—7 784

4. In a factory 48t 880kg of cement were produced in the first week. The second and third week. It produced 149t 920kg. What mass of cement was produced in the three weeks?

**Practice exercise 4**

2. A butcher had 1t 500kg of meat. He

sold 900kg. What mass of the meat remained?

3. A store had 4t 550kg of maize. During the month of February the farmer realized 1t 750kg of maize was destroyed by weevils and rodents. What mass of maize was not destroyed?

4. A pickup carried 7t 650kg of sand, while a lorry carried 20t 800kg of sand. What is the difference in mass carried

5. Subtract 950kg from 5 tonnes

**Practice exercise 5**

2. A lorry carries 2t 750kg of stones to a school. If the lorries made 9 trips to the school. What is the total mass of stone transported to school.

3. The county government donated food to 12 sub county. If each sub county got 42t 780kg of relief food. How many tonnes and kilograms did the county donate.



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4. In a factory, 35t 415kg of goods were stored in a room. If there were 12 rooms in the factory. What is the mass stored in the room if fully packed.
5. What is the product of 8 and 17t 520kg

#### **Practice exercise 6**

1. Three schools shared 8t 340kg of beans equally. What mass of beans did each school receive?
2. 7t 350kg of maize flour was shared equally among 5 vendors. What mass of maize flour did each vendor get?
3. Work out
  - a. 8 65t 680kg
  - b. 2 125t 688kg
  - c. 5 18t 565kg
4. Divide 9t 650kg by 5
5. Share 15t 224kg of food among 4 schools each school gets?

#### **TIME**

##### **Practice exercise 1**

1. Activity. Complete the table with a | tick on the correct time

Am.      Pm

- a. We come to school at 7.00
- b. We go home at 6.00
- c. We eat lunch at 1.00



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- d. The hen crows at 5.00
- e. We clean our class at 3.45 |

**Practice exercise 2**

1. How many hours are there from midnight in the following?

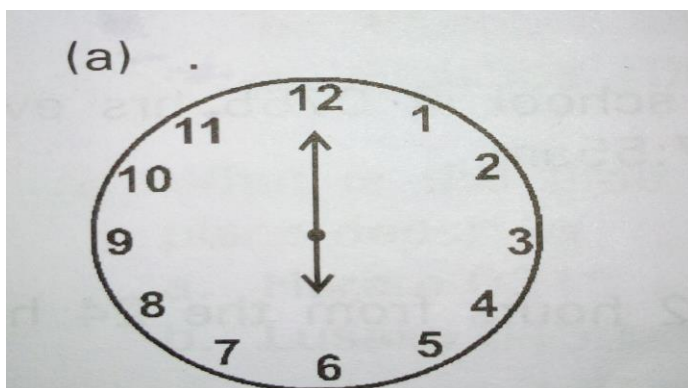
- a. 6.00 am
- b. 10.00 am
- c. 12.00 noon
- d. 2.00 pm

| 2. How many hours are there from noon to:

- a. 11.00 pm
- b. 3.00pm
- c. 4.00 pm
- d. midnight

**Practice exercise 3**

Fill in the time of each clock using am or pm







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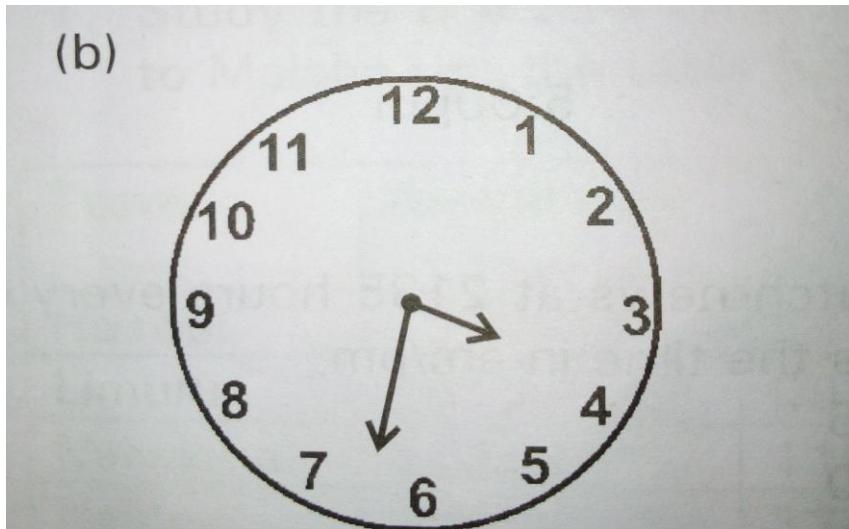


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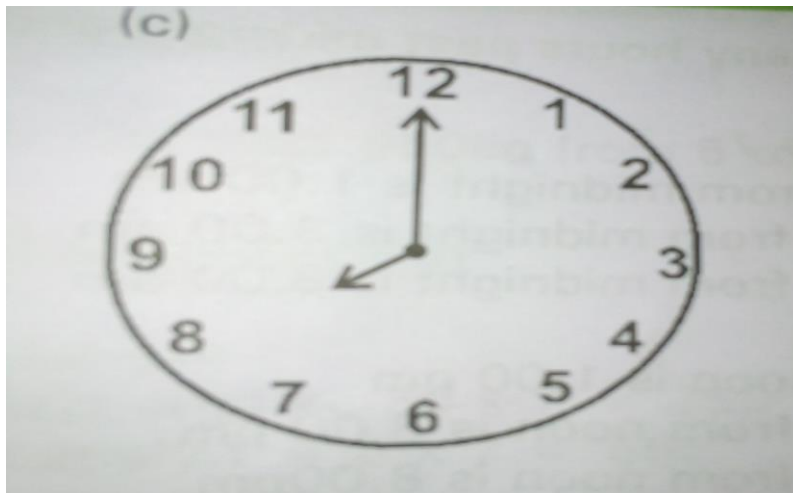
Juzi woke up at \_\_\_(am / pm)

(b)



She went home at \_\_\_\_ (am/pm)

(c)





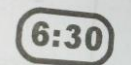


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(d) 

Juma ate his breakfast at \_\_\_(am / pm)

(e) 

Juma always takes his lunch at\_\_\_ (am/pm)

**Practice activity 4**

1. Complete Table

	24 hours clock system	Am/pm
A	2200 hours	
B		7:50 am
C		4: 00 pm
D	1800 hours	
E	0300hours	

2. Juzi left town at 2152 hours and reached home at 0345 hours. At what time in am/pm system did he leave town?

3. Our ticket to Mombasa indicated that we should report at the train station at 2345 hours. What time will this be in am/pm system.

4. Our music lesson Starts at 10:00 a.m.

What time does the lesson start in 24 hours clock system.



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5. Our library lesson stops at 1:45 pm.

What time does the lesson stop in 24 hours clock system

**Practice exercise 5**

1. Study the bus time table from Nairobi to Malaba and use the table to answer

- a. What is the arrival time at Malaba in am/pm
- b. How long does the bus take to travel from Nairobi to Malaba
- c. Find the station with equal stopover time
- d . What is the departure time of Nakuru in am/pm

2. Use the train timetable to answer question

- a. For how long does the train stop at station Y
- b. What time in the am/pm clock does the train arrive at station
  - a. Y
  - b. Z
- c. What time in am/ pm clock does the train depart at station
  - a. W
  - b. Y
- d. How long does the train take to travel from X to Y



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**MONEY**

**Practice exercise 1**

Calculate the profit

- a. Kim bought a bag at sh. 500/=. He sold it at sh. 700/=
- b. Juni bought a rabbit at sh. 600. He sold it at sh. 1,000/=
- C. Bobo bought a cock at\_ sh. 1,000/=. He sold it at 1,300/=

**Practice exercise 2**

Complete the table with profit or losses

Tick loss or profits

	Buying price	Selling price	Profit/ loss	How much
A	Sh. 17,000	Sh. 20,000	profits	
B	Sh. 13, 000	Sh. 15,000		
C	Sh. 39, 400	Sh. 20, 400		
D	Sh. 2,000	Sh. 5, 000		
E	Sh. 8,000	Sh. 10, 000		

2. Juma sold his bag at sh. 500/= What was the profit if he had bought it at sh. 350/=

3. The profit made from selling a pencil pocket bag was sh. 50/=. How much was the pocket bag sold if it was bought at sh. 200/=

**Practice exercise 3**

- 1. What is the loss in the following
  - a. Buying price sh. 1,000/= selling price sh. 800/=
  - b. Buying price sh. 800/= selling price sh. 700/=



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c. Buying price sh. 500/= selling price sh. 300/=

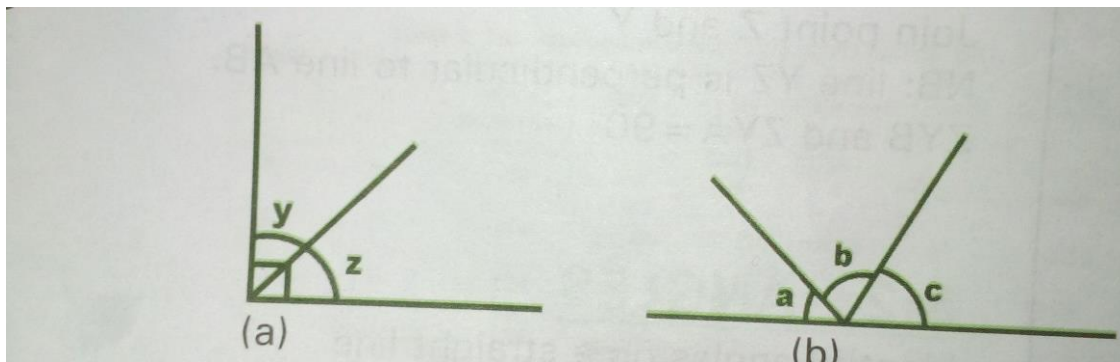
2. Complete the table

## **STRAND 3: GEOMETRY**

### **GEOMETRY**

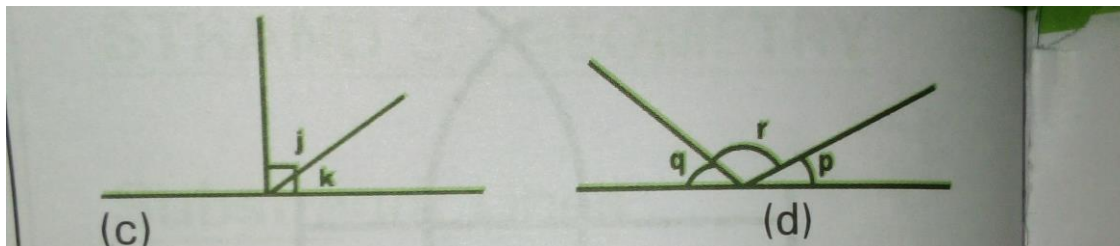
#### **Practice exercise 1**

Measure the angles below and say if they are supplementary or complimentary angles.



Angle  $(y+z)$  are =

Angle  $(a+b+c)$  are =



Angle  $(j+k)$  are =

Angle  $(p+q+r)$  are =



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**Practice exercise 2**

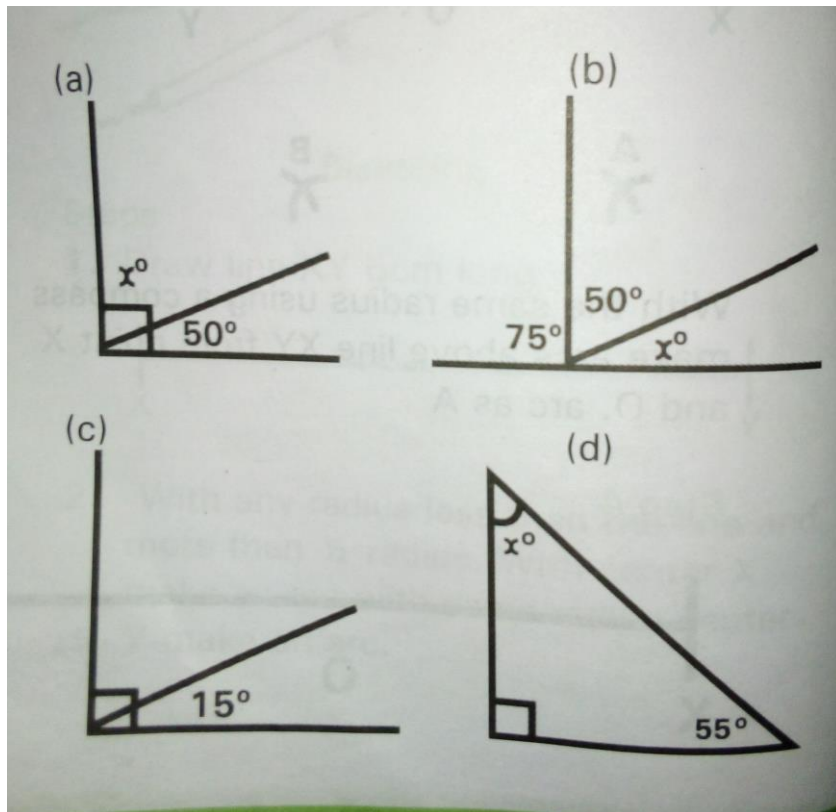
Calculate the size of missing angles without using a protractor.

Use

Right angle =  $90^\circ$

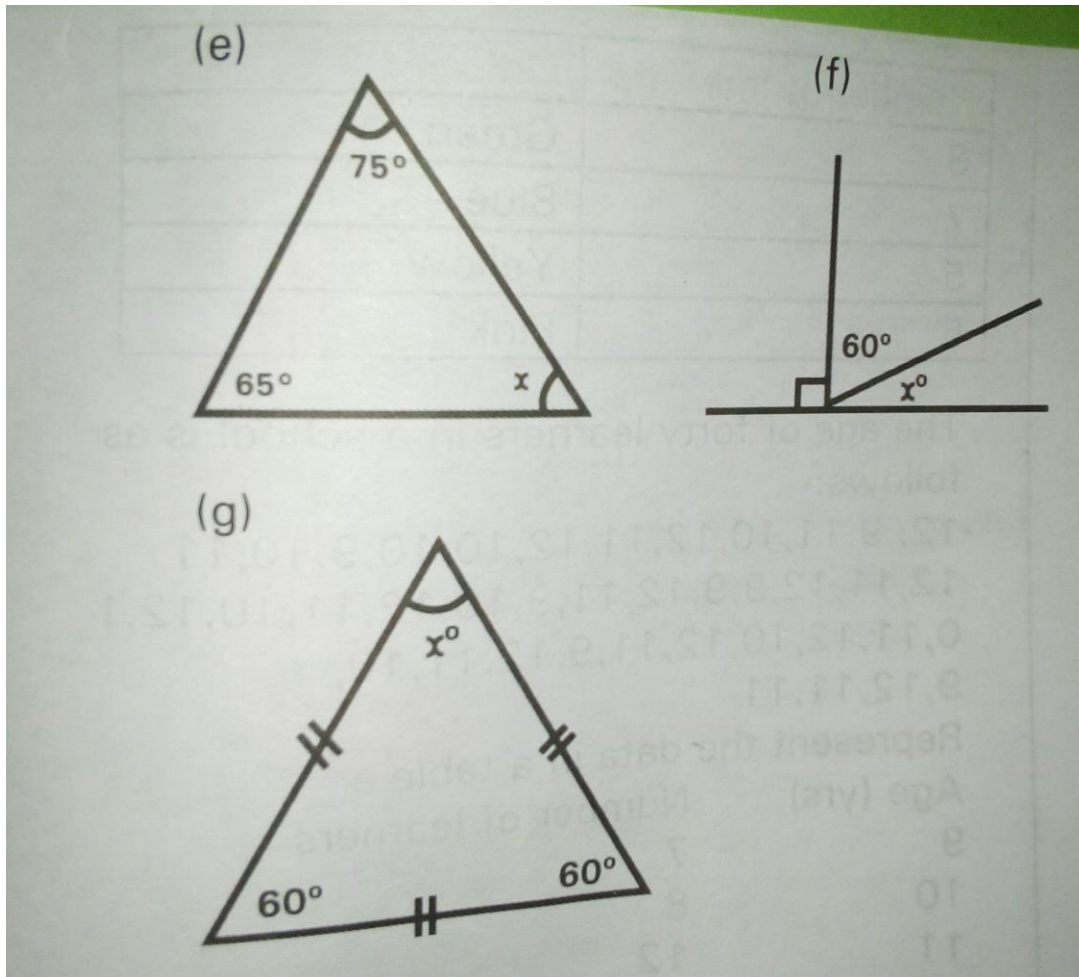
Angles on straight line =  $180^\circ$

Angles on triangle =  $180^\circ$





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**Exercise 3**

Complete the Table

Object.	Faces	Vertices.
---------	-------	-----------

An open box cuboid box

A closed cylindrical tank

A rectangular based pyramid

Royco cube

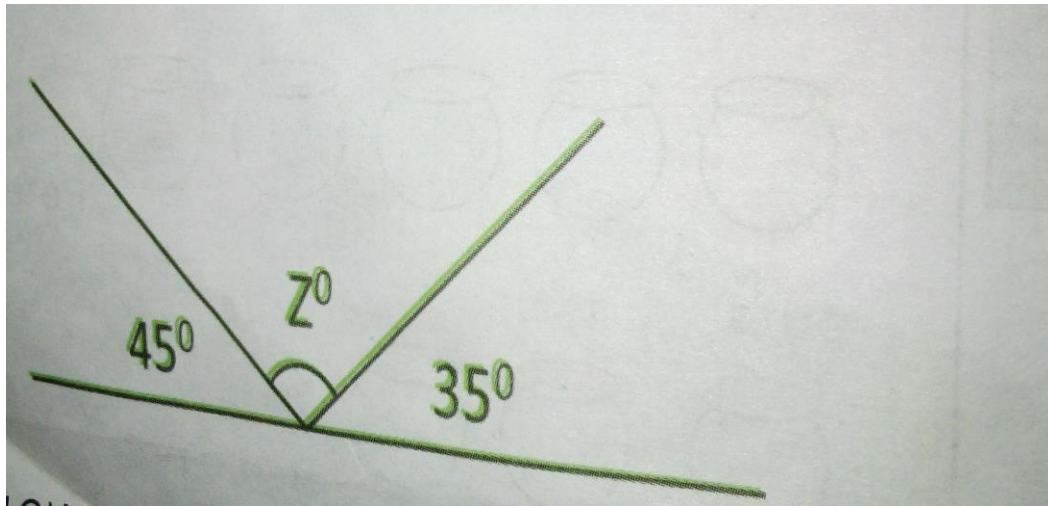


**MATHEMATICS MODEL TEST PAPERS**

**TEST PAPERS**

**TEST PAPER ONE**

- 1) Write 946848 in words
- 2) Place value of 5 in 654823
- 3) What is the total value of 4 in 486321
- 4) Divide 5928 by 13
- 5) Convert 0.25 as a fraction to the simplest form possible
- 6)  $4\sqrt{15}$ hrs 2mins 24sec
- 7) Work out  $5^{3/7}$  added to  $8^{1/3}$
- 8) Give the reciprocal of 641
- 9) Find the value of angle marked z



- 10) What 79.23 added to 3.09
- 11)  $\sqrt{576}$





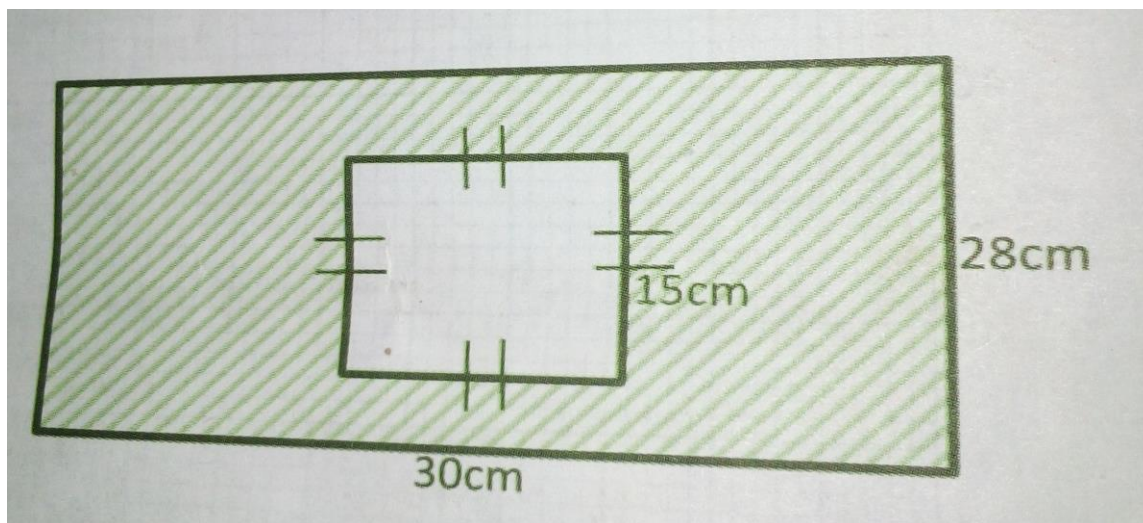
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12) What is the area of the shaded figure below



13) Which one weighs heavier A lorry carrying 70 tonnes or a pickup carrying 70,000kg of maize

14) The school has 17 classrooms, each room has 56 desks if every learner in the school has a desk what is the approximate number of learners in the school round off to the nearest tens

15) min    sec

18    35

X    7

16) Write 2:45pm in 24 hours clock system

17) How many grams are there in  $2\frac{1}{2}$  kgs

18) Convert 2315 into am/pm clock system





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19) A cube has.....faces

20) A businessman bought a pair of shoes at sh800/= .He later sold it at sh1000/= to a dear friend.

Did he make a profit or a loss?

21) By how much?

22) What is  $8^{3/4}$  litres into millilitres?

23) m    cm    mm

3    32    5

X            8

24) How many tonnes of sand are in a pickup that weighs 480,000kgs

25) Work out

568941

-287995

26) Juman can read 71 words in 12 minutes. How many words can he read in one minute approximately round off to the nearest tens?

27) Work out

134 multiply by 24 is?

28) A race started at 0845hrs if it took 7hrs 19mins. At what time did it take to stop on am/pm system?

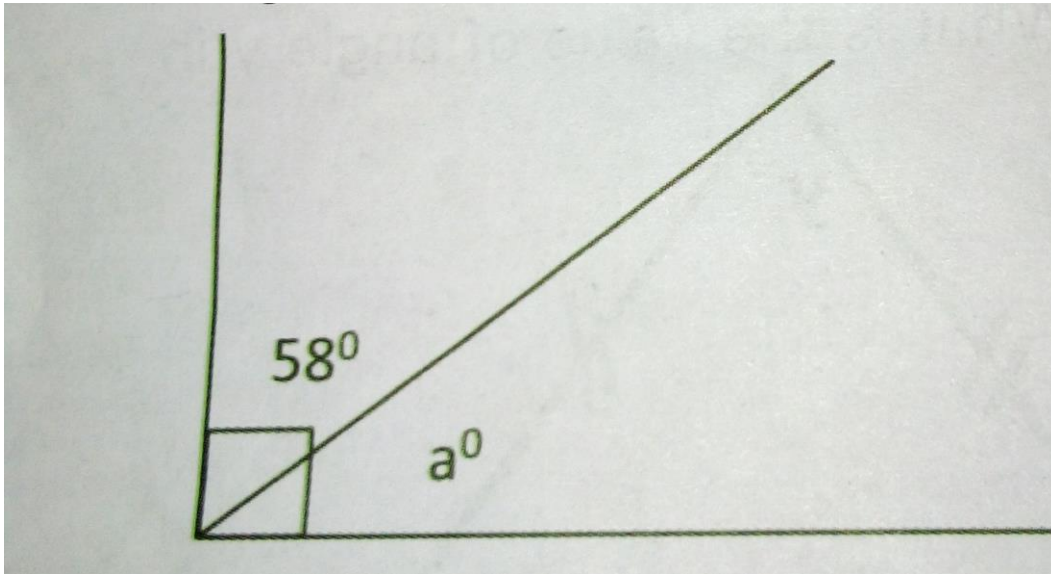
29) Angle a is missing. It measures?



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30 t    kg    g  
5    623    439  
+4    561    739

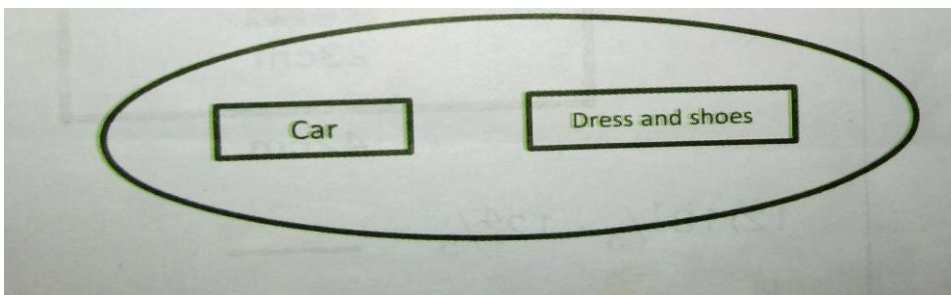
31) A class has five groups. Each group was given 13cm 9mm piece of ribbon.

What was the length of the ribbon before sharing?

32) Jim sewed a mat using his piece of cloth measuring 52cm 5mm. if he used 39cm 8mm of the cloth, what piece remained ?

Write wants or needs

33) For question 33 and 34, write wants or needs

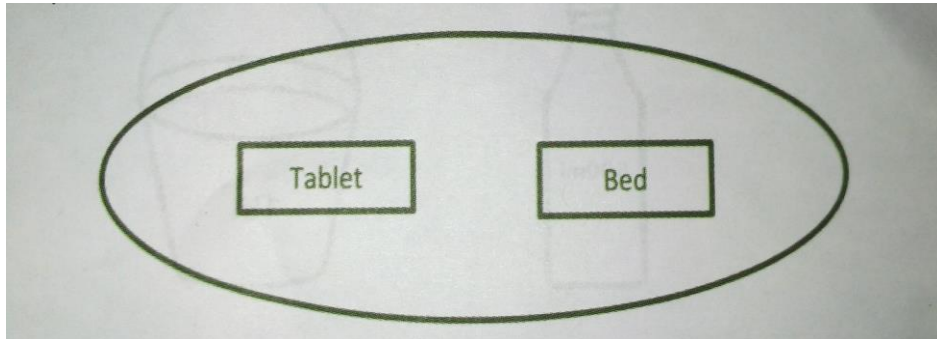




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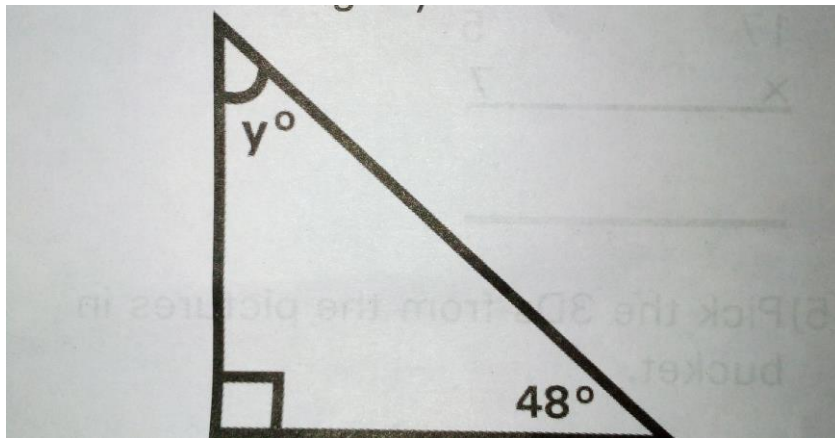


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34)

35) Name angle y



36) 5/10 into percentage

37)     kg     g

       5     324

       +8    526

identify the missing angle here

38) 39° + ..... = complementary angles

39) 39° + ..... = supplementary angles



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A train station time table

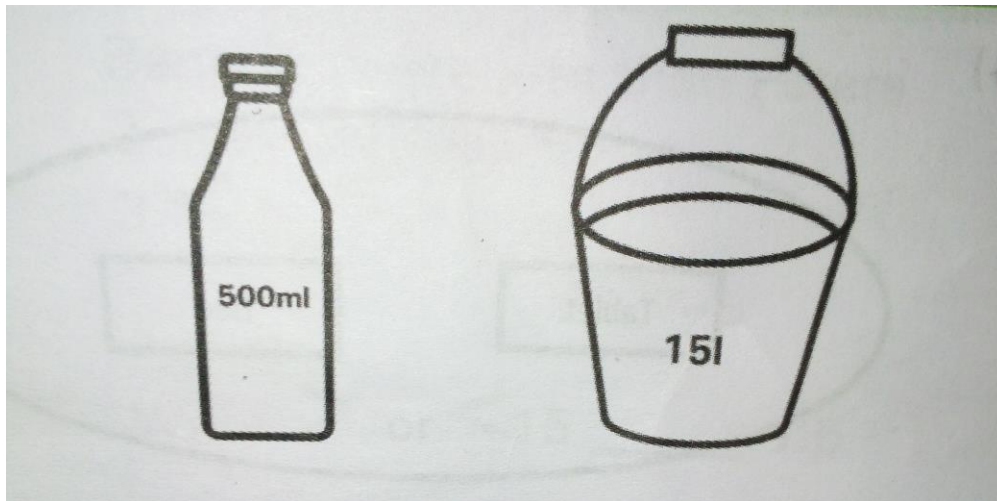
40) How long did the train stop at town O

41) How long did the train take to travel

from town M to P

42) Write Town M departure time in 24hours system.

43) How many bottles will fill a bucket that holds 15 litres,



44) weeks    days

17        5

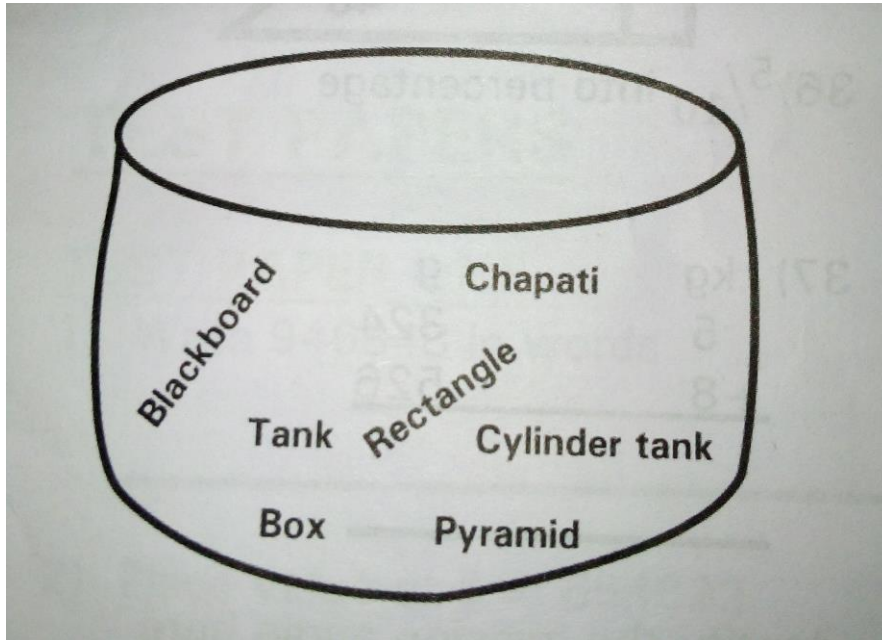
X         7

45) Pick the 3Ds from the pictures in bucket.



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46)  $172 \times 35 =$

47)	Sh	Cts
	51	25
	X	7

48) Convert 75% into fraction

49) Work out

$5\sqrt{94t}$  155kg

50) Name the angle below



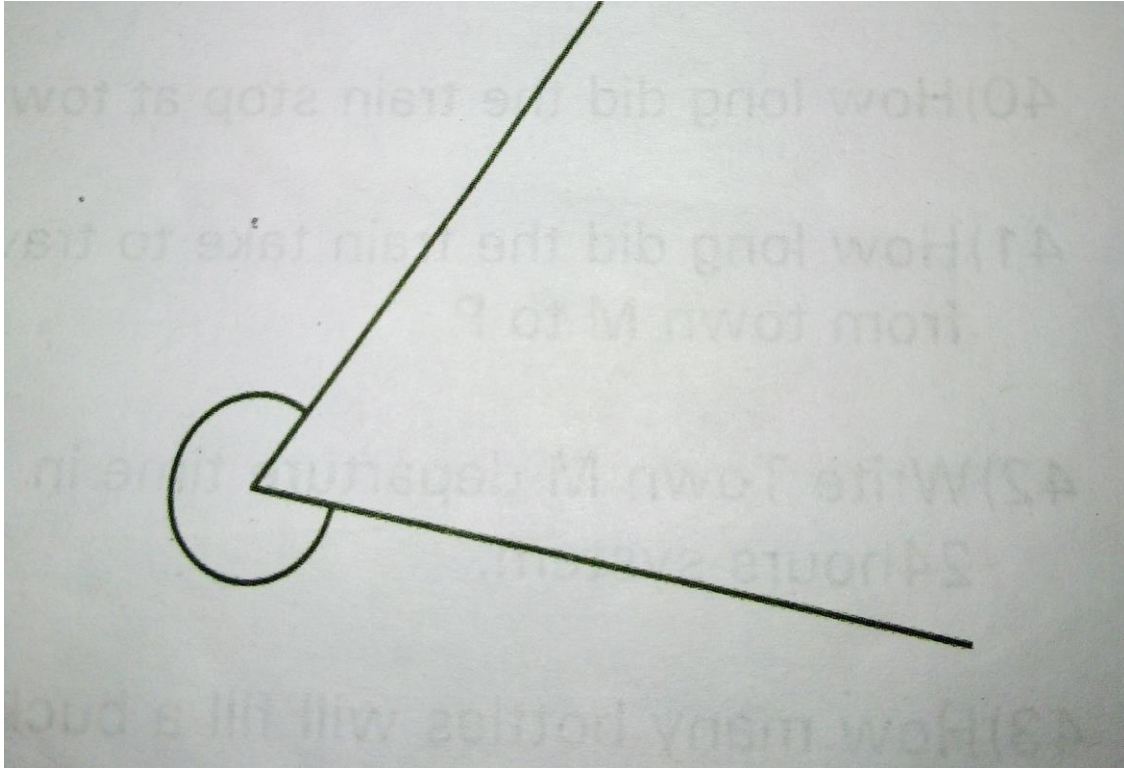


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**TEST PAPER 2**

- 1) What is the place value of digit 2 in 39.782?
- 2) Work out  
$$\begin{array}{r} 48671 \\ + 35481 \\ \hline 41198 \end{array}$$
- 3) What is the perimeter of a square whose area is  $576 \text{ cm}^2$ ?
- 4) Round off 49874 to the nearest thousands.
- 5) Workers at school are 49. If each worker is paid sh.1, 545 how much does the school pay altogether?



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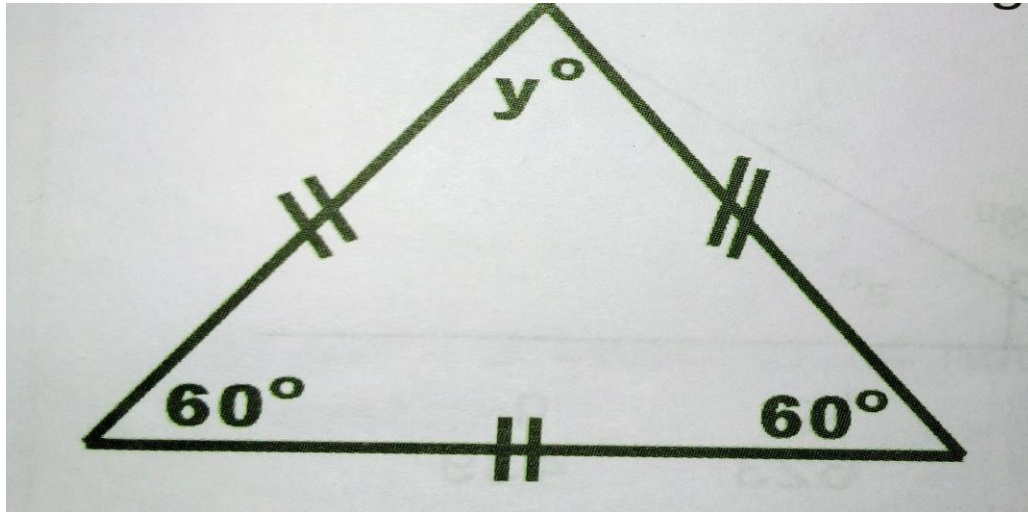


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6) Convert 0.68 into fraction.

7) What is the value of angle y in



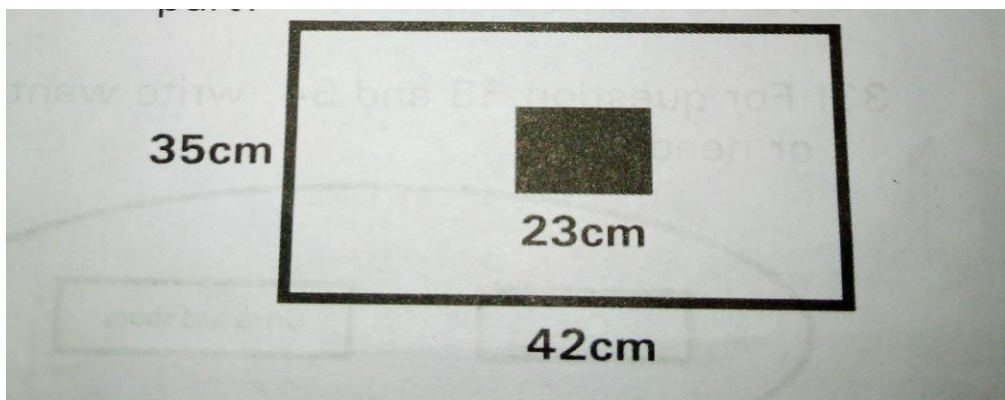
8)     kg     g  
       52     523  
       X     4

9) What is the value of  $(3^{2/9})^2$

10) Work out

$7.59 - 2.87$

11) What is the area of the unshaded part?





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12)  $18^{1/3} - 12^{4/5} =$

13) What is the GCD of 18, 48 and 72

14) What is the product of 79 and 103

15) Give the reciprocal of  $7^{3/7}$

16) How many tones are in 16000000kg of maize?

17) Lcm of 4, 6 and 8

18) Work out  $\sqrt{144} + \sqrt{900}$

19) M    cm    mm

12    32    5

X        9

20)  $534 \times 78 =$

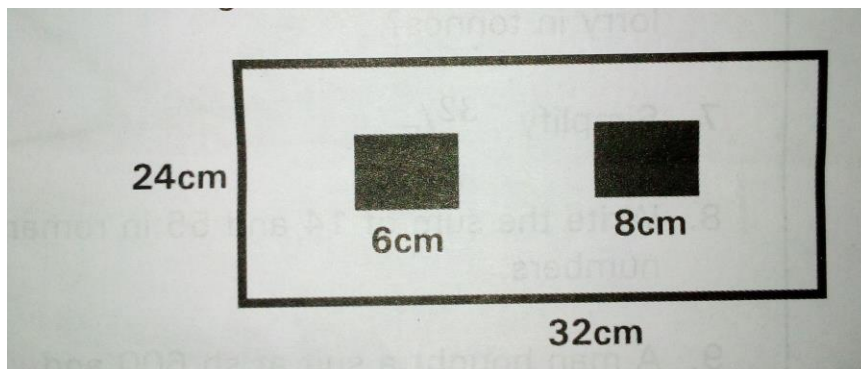
21)  $18^{1/4}$ kg +  $2^{1/2}$ kg to grams

22) How many liters are there in 7750 Milliliters of water?

23) Juman can stay under water for 3minutes 15seconds. How many seconds can he stay under water?

24)  $5\sqrt{234}$ kg 34g

25) What is the area of unshaded part of the figure below?



26) Convert 6km 483m into meters.





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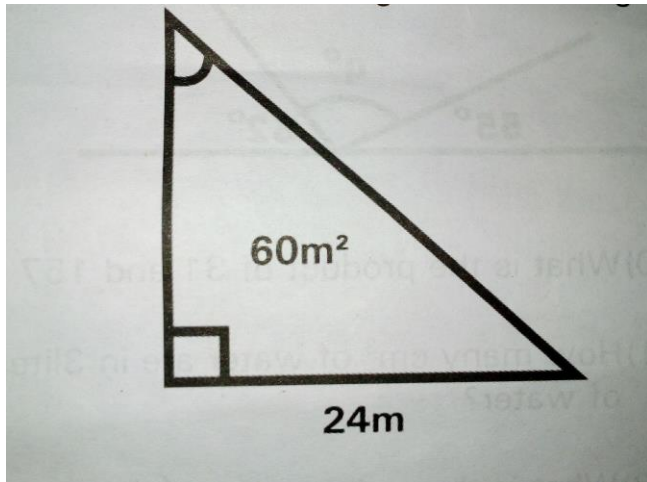
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27) Round off 4.683 into the nearest two decimal places.

28)  $1523 \times 33$  is

29) Juma had 814 cows. If each cow produced 32 liters of milk, Juma had ..... liters of milk in a day.

30) Look for the height of the triangle



31) What is the volume of a tank that measures 8m by 9m by 7m?

32) T Kg g

7	523	349
+2	239	329

33) What is the square of  $3 \frac{2}{5}$

34) Work out

758
X 21

35)  $19 \frac{1}{2}L + 3 \frac{3}{4}L = \dots \dots \dots$  ml

36) What is the place value of digit 5 in 685932?



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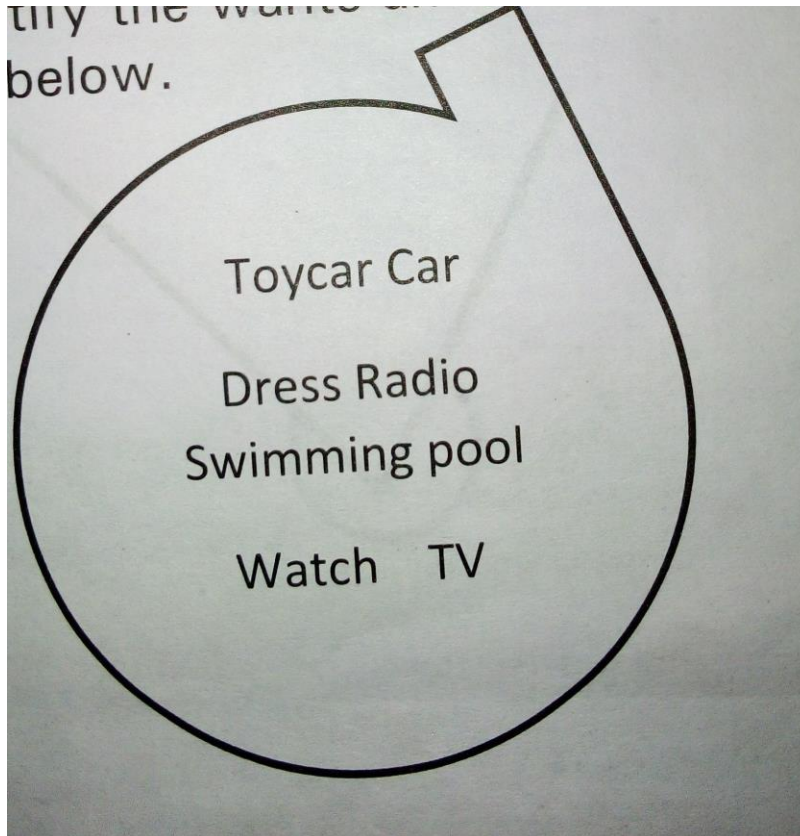


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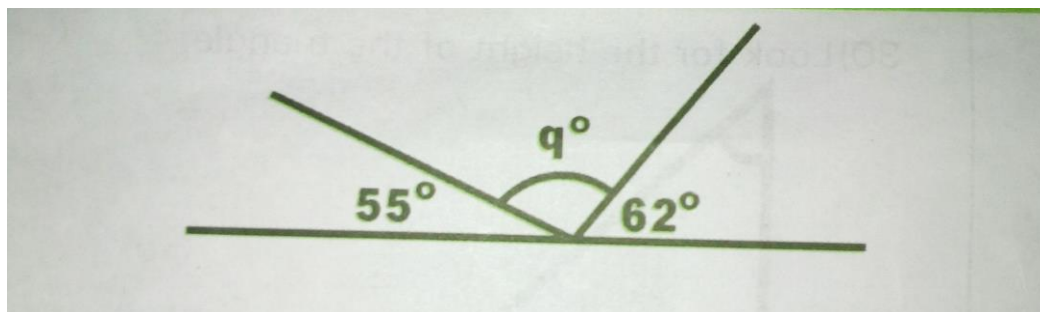
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37) What is the difference between 33.43 and 0.343?

38) Identify the wants and needs in the pot below.



39) Give the value of angle  $q$





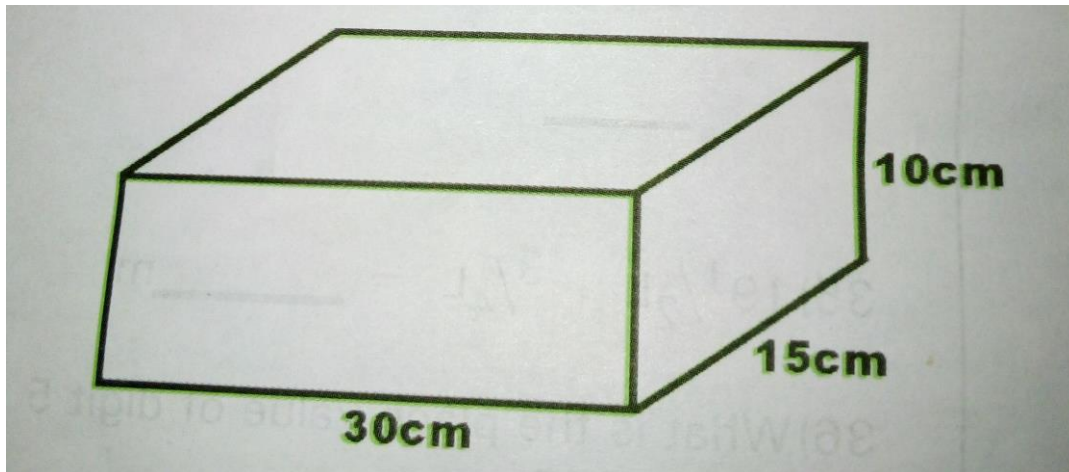
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- 40) What is the product of 31 and 157
- 41) How many  $\text{cm}^3$  of water are in 3 liters of water?
- 42) What is the reciprocal of  $5 \frac{6}{7}$
- 43) What is the sum of the prime numbers between 1 and 10?
- 44) Write the biggest value of numbers from the following digits 8, 7, 3, 2, 4.
- 45)    Km    m    cm  
      5    281    23  
      X            7
- 46) What is the volume of a cuboid.



- 47) Convert 1715hrs into am/pm system.
- 48) A cuboid has..... vertices
- 49) Name the angle.

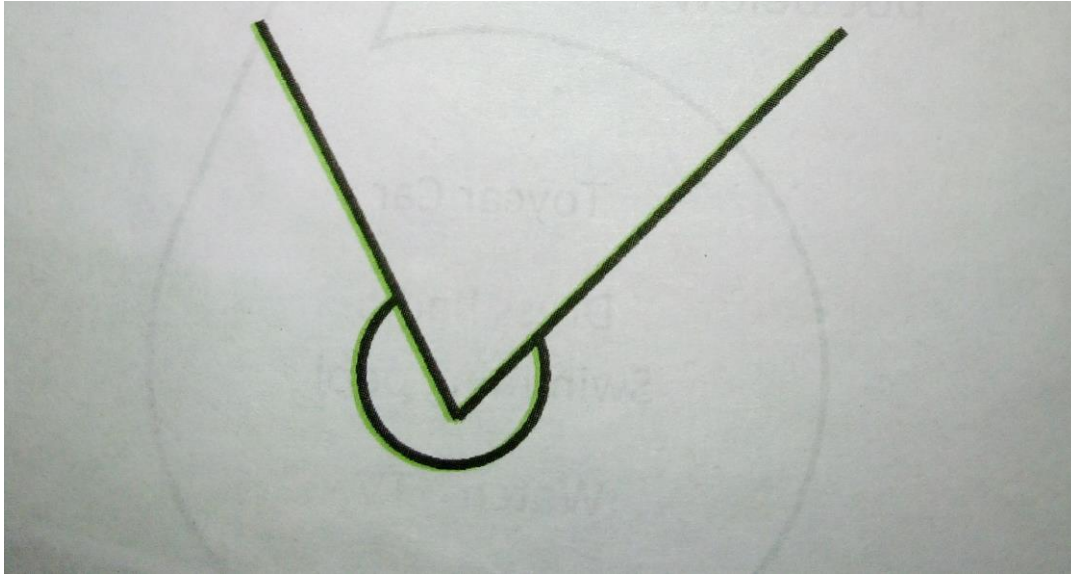


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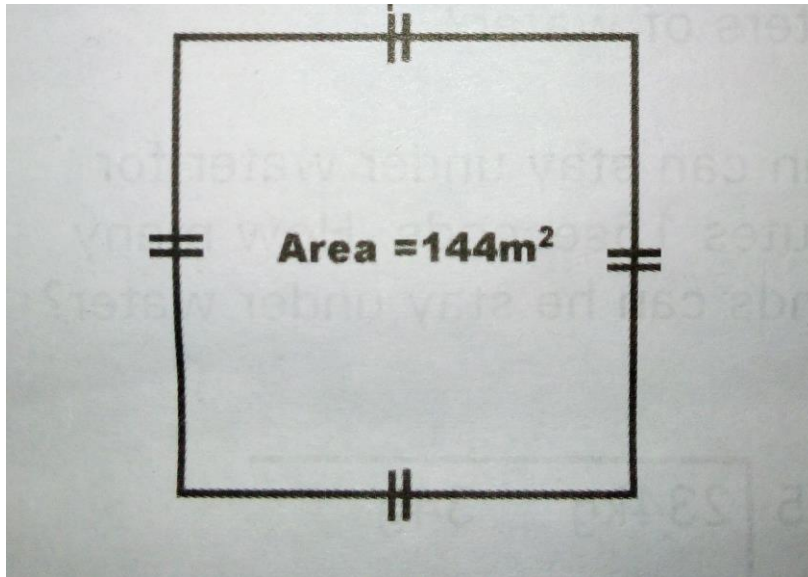
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**TEST PAPER 3**

1. Write three million three hundred thousand and thirty-three
2. Round off 78954 to the nearest thousands
3. Write 3536.501 in words
4. Work out

$(6 \frac{1}{3})^2$

6. Find the perimeter of a square



6. At Gill town weigh station lorry weighed 70,000kg when empty, the lorry weighed 80,000kg when loaded with sugar, what is the weight of the sugar loaded in tonnes?
7. Simplify  $\frac{32}{7}$
8. Write the sum of 14 and 55 in roman numbers
9. A man bought a suit at sh 600 and sold it later. He made a loss of sh.150/=. How much did he sell the suit?





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10.    Km    M    cm  
       7    251   23  
       X           2

11. What is  $\frac{1}{4}$  of 24

12. What is the difference of the LCM and the GCD of 18, 24 and 36?

13. Write 0.06 as fractions

14. Change  $7\frac{2}{3}$  into improper fractions

15. How many quarters kilogram are there in 25 kilograms of sugar?

16. Write three and six seventh in figures

17. Use the digits 02,385 write the smallest numeral

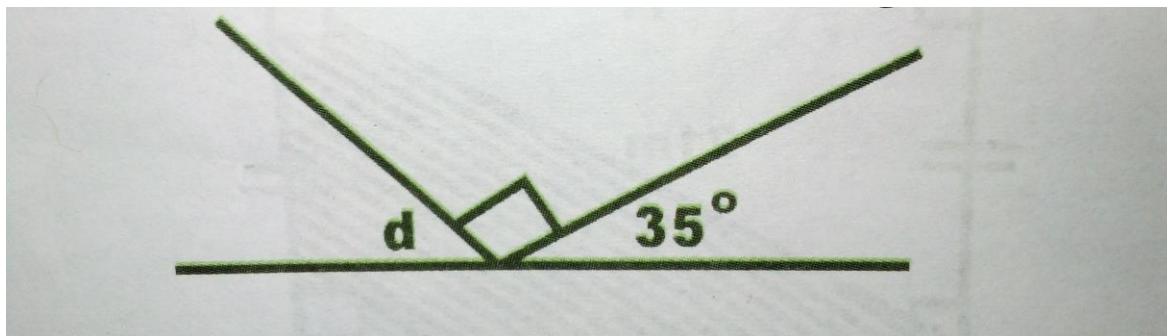
18. Juzi has sh534,575 in the bank, his friends paid of the debt sh135, 978 and deposited in the bank. Juzi had .....amount after the debt was paid?

19.  $0.3489 + 1\ 36.72 + 12.39 =$

20. What is the total value of 8 in 683,942?

21. Convert 83784 ml into liters and millimeters.

22. What is the value of angle d in?





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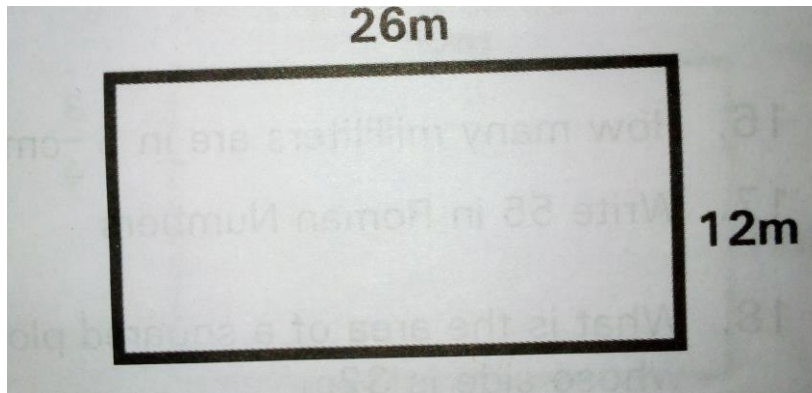
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23. Solve

$$7/8 + 3/16 + 3/4$$

24. What is the area of?



25.    L        Ml  
      24      650  
      +12     775

26.  $3/5$  as a decimal is

27. What is the time in am/pm clock system in 1737

28.    Cm      mm  
      29      8  
      +34     9

29. Work out

$$1343 \times 73$$

30. Work out

$$78.01 - 13.841 =$$

31. A Cuboid has.... Faces





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32.

T      kg

7      348

+3     241

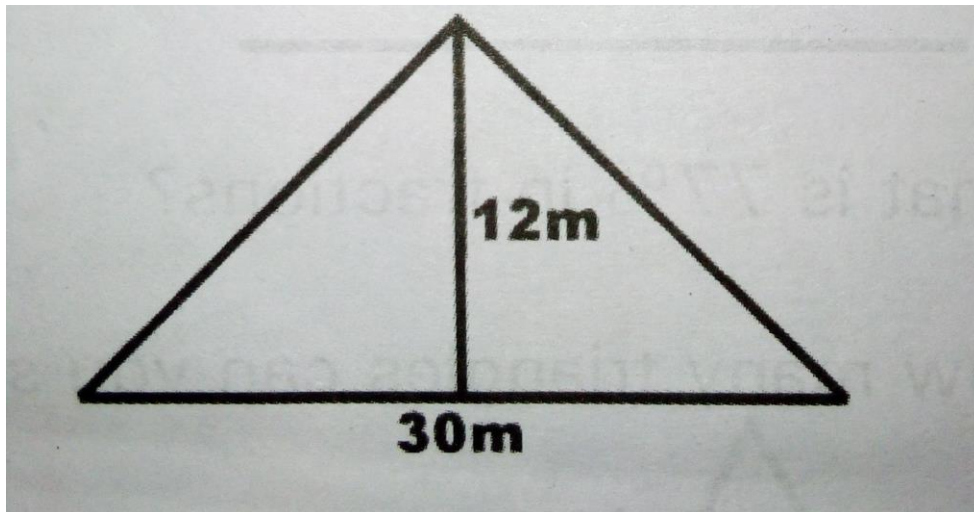
33. What is the time in am or pm? 1945hrs.

34. Work out

15-0.34

35. Convert 8 ½ L into millimeters

36. What is the area of the figure below?



37. Give the missing number

1349, 1359, 1369,

38. 996377

-475855

39.  $7w + 4 - 6w + 7 =$



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- 40. How many kg are there in 3000g?
- 41. What is 6:00pm in 24hrs clock?
- 42. Make the smallest number possible: 36492

Use the time table to answer questions

- 43. How long does it take from Q to R?
- 44. What is the arrival time at R in am/pm?
- 45. How many minutes is the stop over at B?
- 46. What is the difference between B and R stop over?
- 47. Tick the wants from the pot.



48. Work out the following

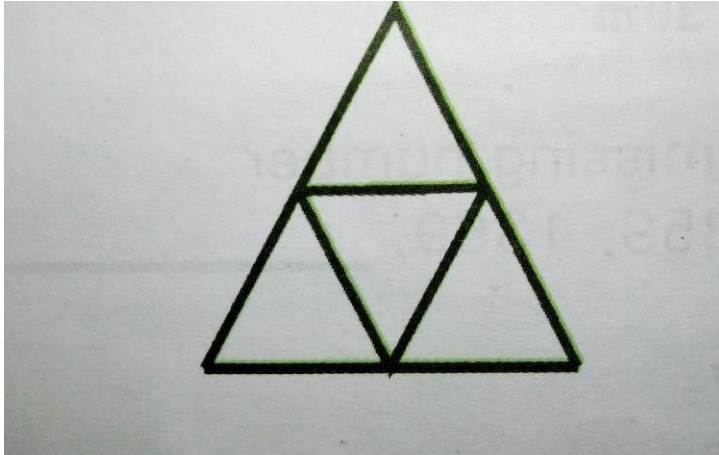
L	ml
15	250
X	8

- 49. What is 77% in fractions?
- 50. How many triangles can you see?



**CBC GRADE 6 ALL STRANDS & SUBSTRANDS REVISION QUESTIONS**

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**TEST PAPER FOUR**

1. Give the place value of digit 4 in

567.3541

2. Write in words 78.0469

3. What is the area of a rectangular  
flowerbed measuring 35m by 25m

4. Convert  $3\frac{1}{4}$  kgs into grams

5. What is 4:15 pm in 24 hour clock system

6. A boy cut thread into 4 equal parts.

Each part measured 13cm by Smm.

What was the length of the thread before cutting?

7.  $6\frac{5}{9} - 4\frac{2}{9}$

8.  $109 \times 57$  is

9. Work out  $73.59 + 148.23 + 67.431$

10. What is the LCM of 12, 15 and 60



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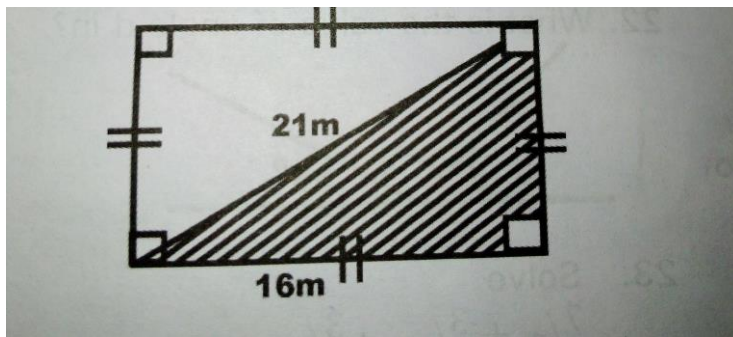
11. Round off 349.6482 to the closest 3 decimal places

12. Convert 56% into a fraction to the simplest form

13. Work out:

$56894 + 49869 - 6666$

14. Find the area of the unshaded part.



15. Work out:

$16 \frac{1}{3} - 2 \frac{1}{7}$

16. How many milliliters are in  $5 \frac{3}{4}$  cm

17. Write 55 in Roman Numbers

18. What is the area of a squared plot whose side is 32m

19.	t	kg	g
	3	245	345
	X		2

20. One chef can bake a cake using  $2 \frac{3}{4}$ L of milk. How many millimeters of milk does the chef use?

21. Multiply 2341 by 51

22. Express 0.225 as percentage

23. What is the square of 6

24. Cm mm



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17     9

X     8

25. Round off 7.3571 to the nearest thousandth.

26. How many minutes are there in  $2\frac{1}{2}$  hours?

27.     Weeks             Days

       14                     4

       X                      5

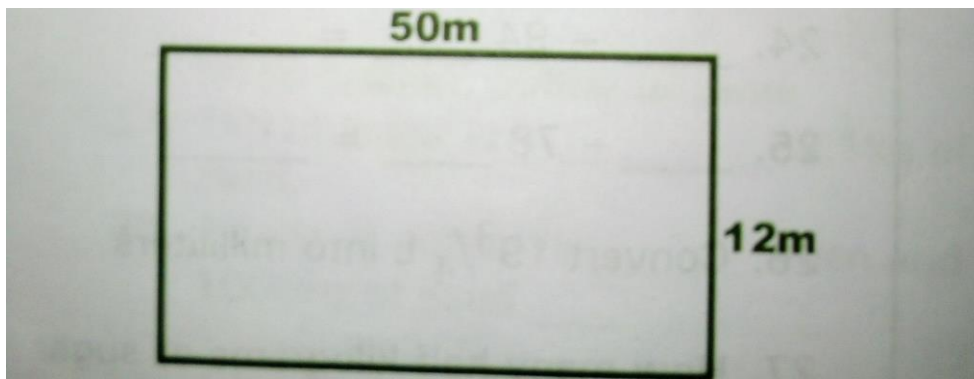
28. What is the product of the LCM and GCD of 12,15, 30

29.  $37.8 + 0.79 \times 361.406 =$

30. What is the next number in the sequence

2, 3, 5, 7 .....

31. What is the area of:



32. Round off 99685 to the nearest tens

33. How many  $\text{cm}^3$  are there in 13 liters?

34. Convert 15% into fraction into the simplest form possible.



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35. The area of a triangle is 40cm if its base is 8 cm. What is the height?
36.  $42.04 + 18.2 - 12.53$
37. Convert  $12 \frac{3}{4}$ kg into grams
38. A closed cuboid has..... faces and..... edges
39. When is the next Leap year,
40.  $4 \frac{5}{7} + 3 \frac{1}{3} =$
41. What is the sum of the prime numbers between 70 and 80
42. Divide  $954 \div 9$  is
43. One book costs sh 81.50 cents How much will Juzi pay for fourteen such books?
- Identify the unit used in measuring them, following masses.
44. Loads in a Lorry
45. A slice of cake
46. Our math's teacher

List down the factors to consider when preparing a budget

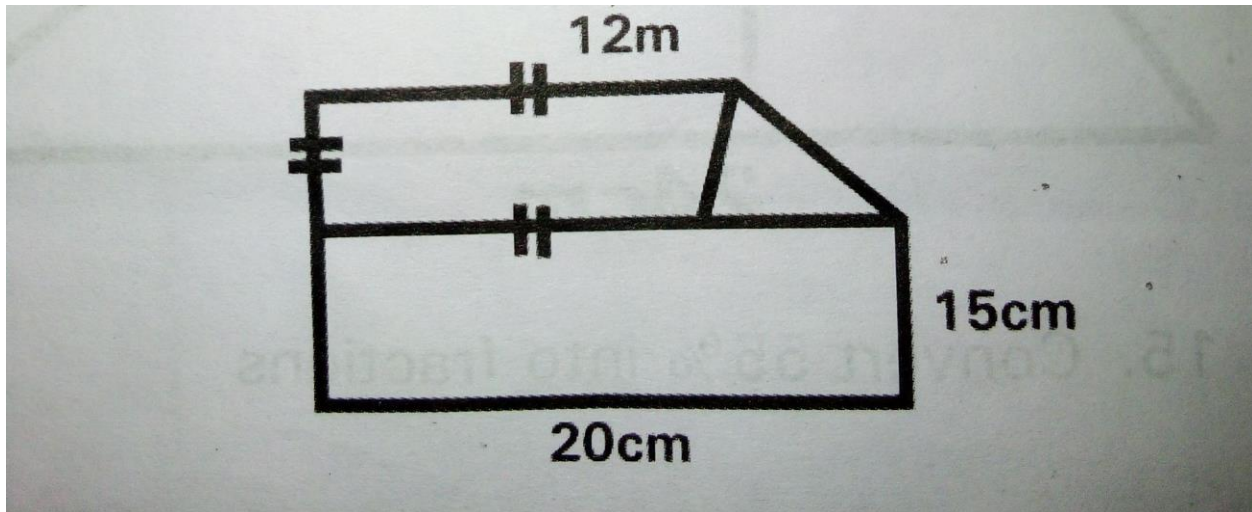
- 47.
- 48.
- 49.
50. Find the area of the figure below.





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**TEST PAPER 5**

- 1 Write 6548930 in words
2. Give the total value of 8 in 4987432
3. Place value of digit 3 in 487.532 1
4. Write the LCM of 6,5 and 12
5. A lorry carries 3t 558kg of sand in one trip. What amount of sand is carried in three trips?
6. Work out:  
 $489324 - 237848$
7. Take away three whole and four sevenths from nine whole and three quarters.
8. What is the time in am/pm in 1754hrs?
9. When baking a banana cake Jumma used  $\frac{1}{4}$  kg of bananas. How many grams did he use?
10. Work out the following  
 $75.589 + 0.79 + 3.48 =$



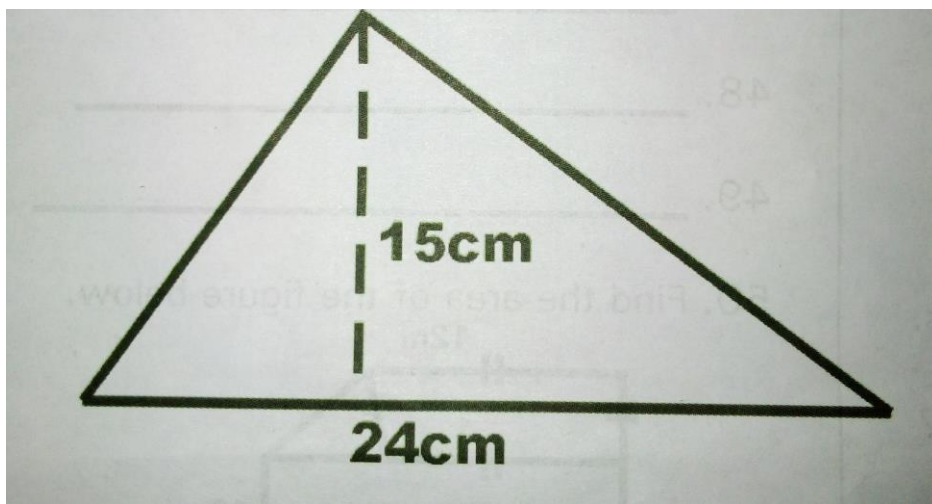
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11. What is 43 in roman numbers
12. Workout  $5\frac{1}{2} + 3\frac{1}{3}$
13. Convert  $68000000\text{cm}^3$  into liters.
14. Find the area of the figure below.



15. Convert 55% into fractions

Complete the table with units used in measuring

16. Capacity
17. Time
18. Mass
19. What is the volume of a cuboid that measures 24cm by 12cm by 10cm?
20. From the numbers below which is the biggest number value that can be formed:  
7, 845, 6
21. In class, Tim had 16cm 8mm of thread and peter had 12cm 9mm

What was the length of thread with the two boys?



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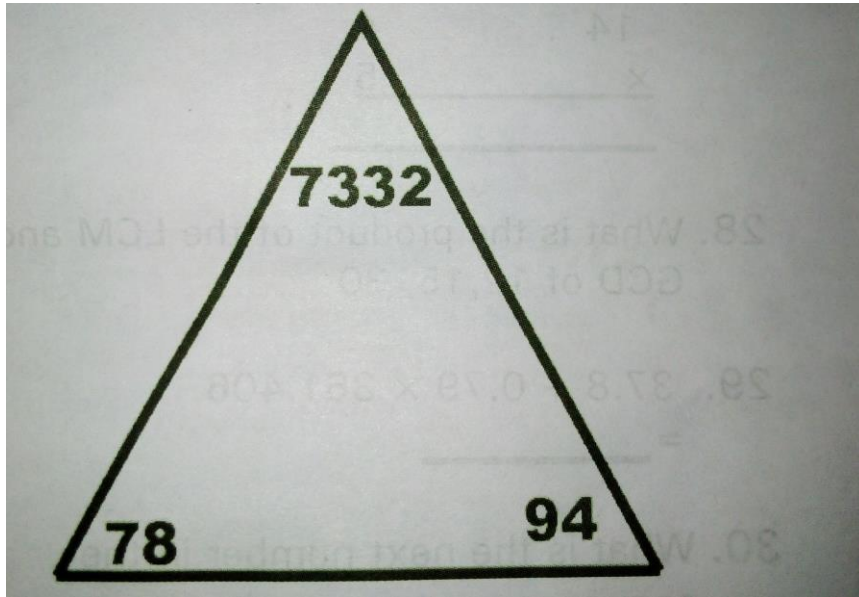


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Create a fact family from the values

7332, 78 and 94



22..... X ..... = 7332

23..... x .....=

24..... ÷ 94 =

25..... ÷ 78 =

26. Convert  $19 \frac{3}{4}$  L into milliliters

27. How many half kilograms of sugar are in 20kg of sugar?

28. Work out

5√Sh 39 45 cents

29.     Wks     days

       7       2

       -3      5

30. What is the sum of  $3 \frac{1}{2}$  liters of milk and  $4 \frac{1}{3}$  of water?



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31. Jude rode a bike for 8km 723 meters. How many meters did he ride the bike?

32. What is the VAT of the receipt below?

	Amount
	100.00
Sub-total	100.00
Vat 16%	16.00
Total	116.00

33. Convert 55% into fraction

34.  $\sqrt{196} + \sqrt{576}$  is

35. Our home science teacher had a thread. He wanted to share it equally among 4 groups. What length did each group get if the thread measured 49cm 2mm.

36. Round off 79.698 correct to 2 decimal places.

Write heavier, lighter or same

37. 1kg of sugar is..... 3.1 kg of sand

38. 1 tone of cotton is.....than and 1000kg of sand.....

39. 1 g of bread and 1kg of bread

The travel timetable has the following time in the station.

40, ..... And

41.....

I bought a book at sh 350 after one week I sold the book to my friend Tommy at sh500

42. What is the time in am/pm? 2345hrs



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43. Did I make profit or loss?
44. By how much?
45. What is the area of a square piece of land measuring  $3\frac{1}{2}$  m?
46. We measure angles using?
47. Cutting a line into two by constructing is known as
- A closed cylinder has?
- 48..... faces
- 49.....edges
- 50.....vehicles

**TEST PAPER 6**

1. Write Four thousand six hundred and seventeen
2. What is the value of digit 8 in the sum of 0.48 and 4.09
3. Round off 394867 to the nearest thousands
4. Juma is  $48\frac{1}{2}$  Kgs. How many grams is Juma?
5. Write 43 in romans numbers
6. What is 0.125 in fractions
7.  $7\frac{1}{3} + 12\frac{1}{2} =$
8.        t            kg
- 18        750
- X        2
9. What is the GCD of 56,72 and 96



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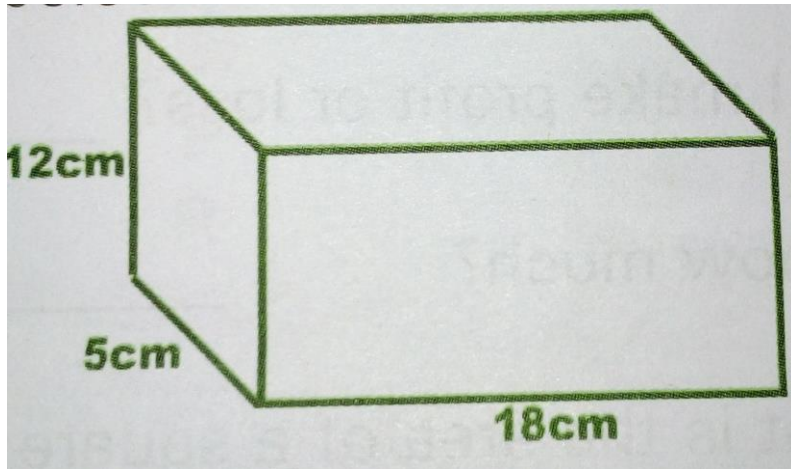


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10.  $\frac{2}{8}$  as percentage

11. What is the volume of the figure below.



12. 24cm 9mm into millimeters

13.  $6.54 + 143.012 + 24.67 =$

14.  $13\frac{1}{4}$  kg into grams

15. Round off 8.4969 to the nearest 2 decimal places

16. What is the complementary angle of 68degrees

17. What is the reciprocal of  $3\frac{7}{25}$

18. Complete the following statement.

Use < or >

$\sqrt{144}$  .....  $6^2$

19. A staff meeting took 2 hrs 15 minutes. If the meeting ends at 1:42pm, at what time in 24 hours clock system had the meeting started?

20. What is the area of

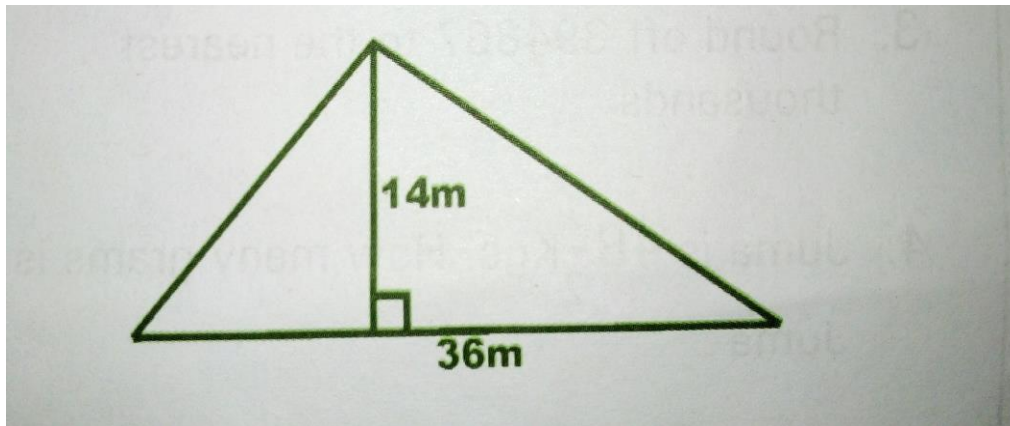




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21. What is the GCD of 24, 18 and 15

22. What is the  $(1 \frac{3}{7})^2$

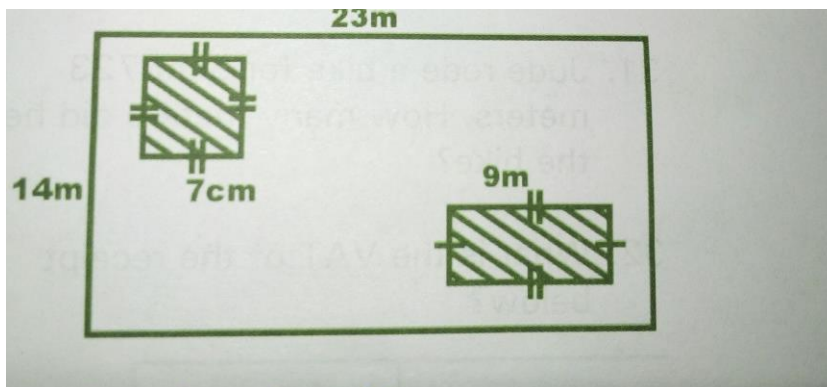
23.   L       ML  
      500    1450  
      - 44    750

24. A tank has the length of 2m width of 3m and a height of 5m. What is the volume in  $\text{cm}^3$

25. Solve  $1080 \div 12$

26. Work out  $7 \frac{1}{2} - 5 \frac{1}{8}$

27. What is the area of the unshaded part.





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Complete the table

3D      faces    edges

28. cube

29. Triangular

30. Cylinder

Which object is correct matched with its unit of measuring

<u>Object</u>	<u>unit or x</u>
31. Meat in a butchery	tone
32. Liquid medicine taken using a spoon	litres
33. Length of a new born	kg
34. A loaf of bread	grams
35. Water in a tank	litres

36. Convert  $35000\text{cm}^3$  into liters

37. Juma had 8493 cows. His father added him 7538 more cows. How many cows did they have altogether?

38.  $109 \times 57$  is

39. How many days are in 8 weeks?

40. What is the volume of the tank below?

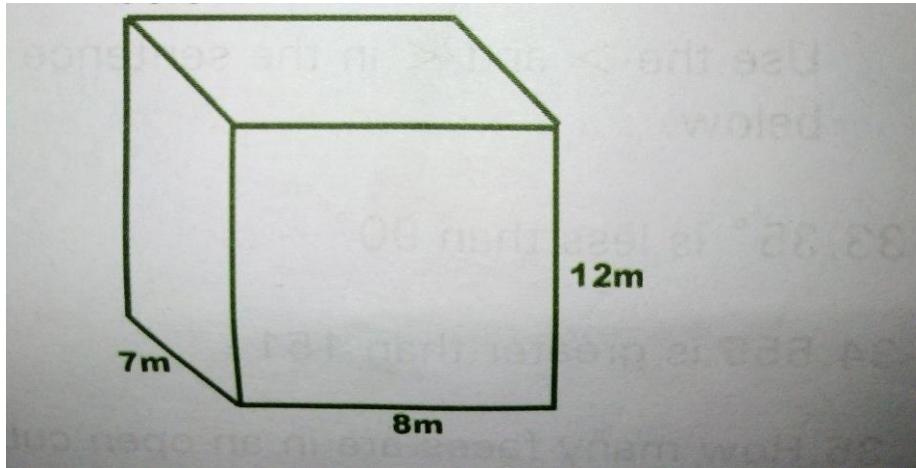


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41. What is the complimentary angle of 39degrees

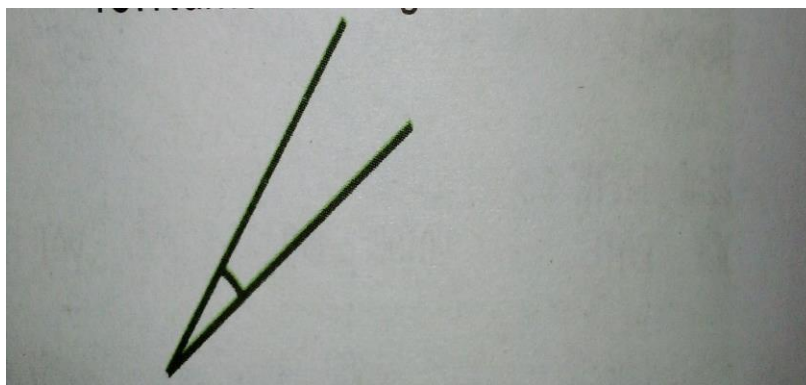
Use the train time table to answer the questions.

42. What time in am/pm did the train arrive at station R

43. How long did the train take to travel from O to R

44. How long was the stop over at station P

45. Name the angle below.





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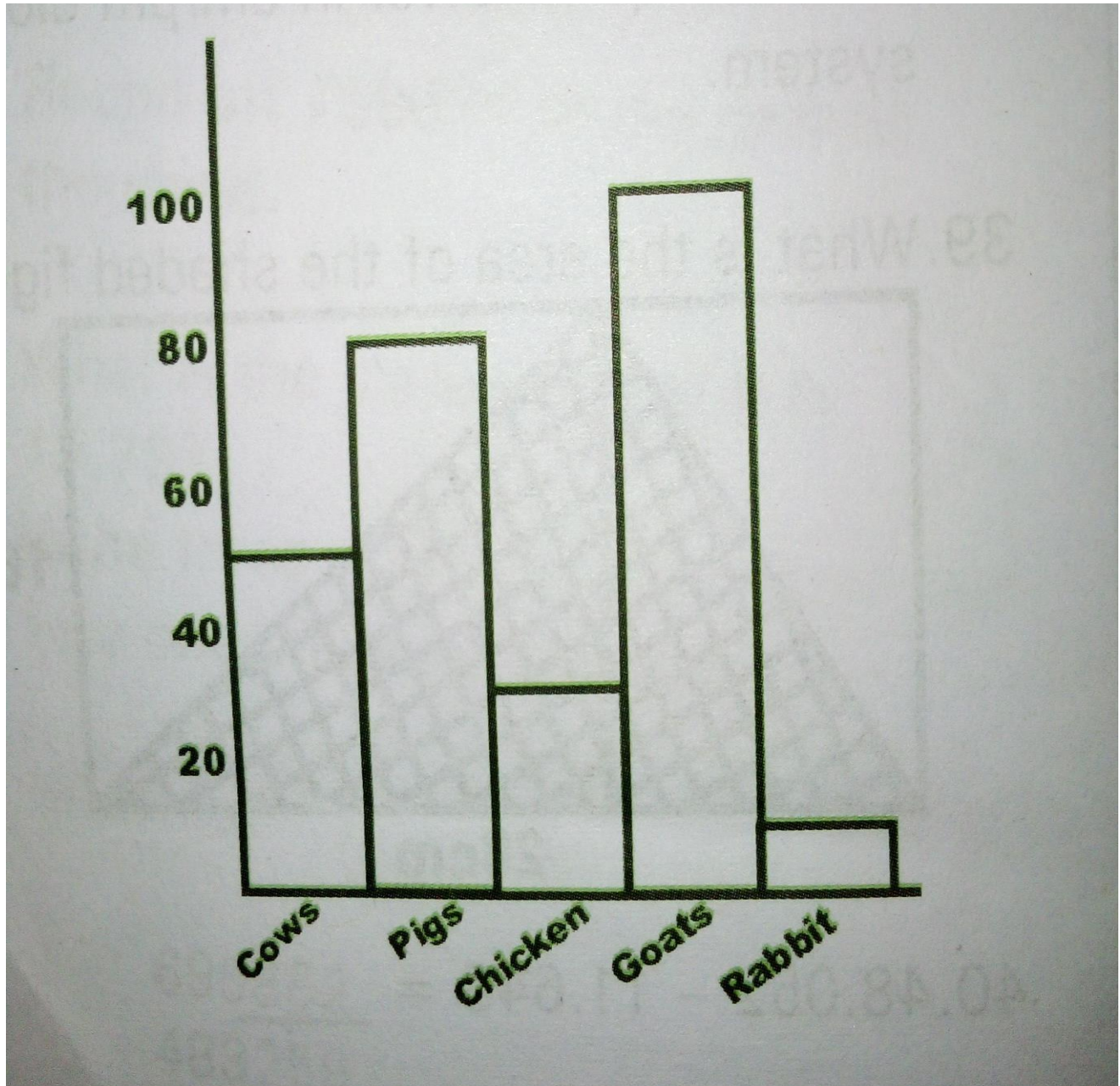


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46. Round off 53.379 to the nearest two decimal places.

The graph below show animal in the farm.







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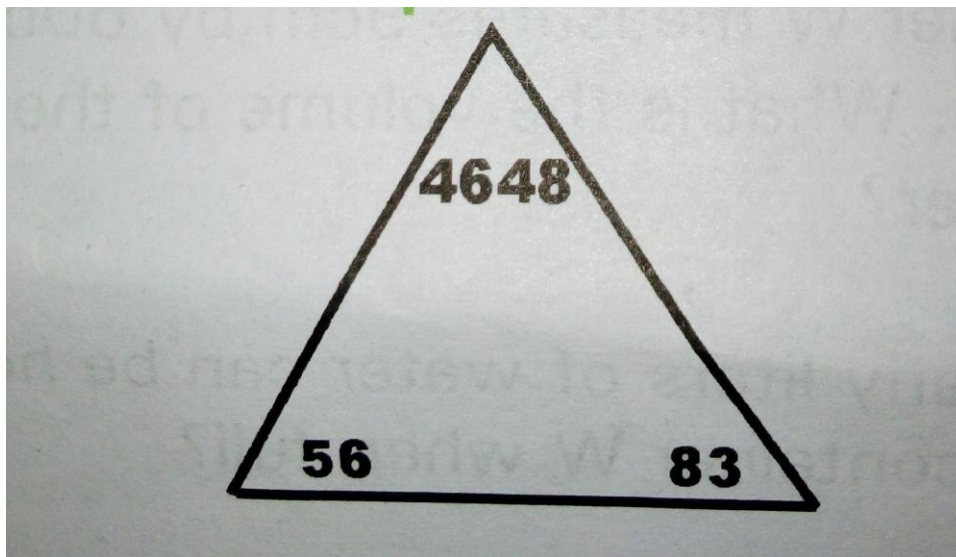
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47. How many animals were they altogether
48. How many more goats are there than rabbits
49. There are.... Pigs
- Use < or >
50. The chicken are.... Than goats

**Test Paper 7**

1. Write 9019 in words.
2. Arrange the following numbers to form the highest possible number 3,7,8,6,0 and 9.
3. What is the sum of prime numbers between 10 and 20?
4. Round off 596942 to the nearest thousands.
5. Solve  $1743 \times 32 =$

Complete the fact family below.



6.  $56 \times 83 =$



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7.  $\_\_\_ \times 56 = 4648$

8.  $4648 \div \_\_\_ = 83$

9.  $\_\_\_\_ \div 83 = 56$

10. What is the fraction of 0.75 in the simplest form possible?

11. Work out  $7\frac{3}{8} + 2\frac{1}{5}$

12. What is the area of a square whose side is 27m?

13. How many meters are there in 17km 66meters?

14. A water tank holds 3600liters. A container holds 75liters. How many Containers of water will fill the tank?

15. What is the place value of 7 in 38.967?

16. What is the product of the LCM and GCD of 16, 32 and 72?

17. Work out  $(4\frac{2}{5})^2$

18. Write  $\frac{3}{8}$  as a percentage.

19.  $0.48 + 78.89 + 0.021 =$

20. What is the value of  $\sqrt{1\frac{9}{16}}$

21. Round off 75.4962 to the nearest two decimal places.

22. Convert 790000mm into cubic centimeters.

23. What is 2135hrs in am/pm clock system ?

24. Container W measures 9cm by 60cm by 4cm. What is the volume of the container?

25. How many liters of water can be held by the container W when full?

26. What is the supplementary angle of 69 degrees

27. Work out  $11\frac{6}{7} - 5\frac{3}{14} =$





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28.    T        kg        g  
      15       185      315  
      -7       642      834

29. Simplify  $99/33$

30. What is the reciprocal of  $5 \frac{1}{3}$ ?

31. A homescience class had ribbons. Juma 15cm 33mm, Peter 18cm 8mm and Juzi 20cm 9mm. What is the length of the ribbons from the three learners?

32. Work out  $523 \times 24$

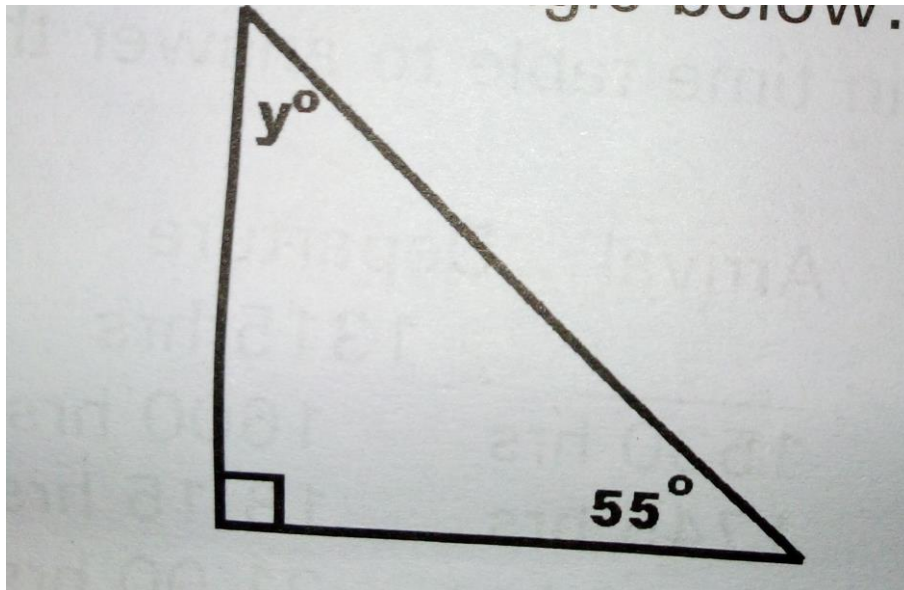
Use the  $>$  and  $<$  in the sentence below

33. 35 is less than 90

34. 555 is greater than 151

35. How many faces are in an open cube?

36. Find the measurement of angle  $y$  in the triangle below



37. From the receipt below identify the



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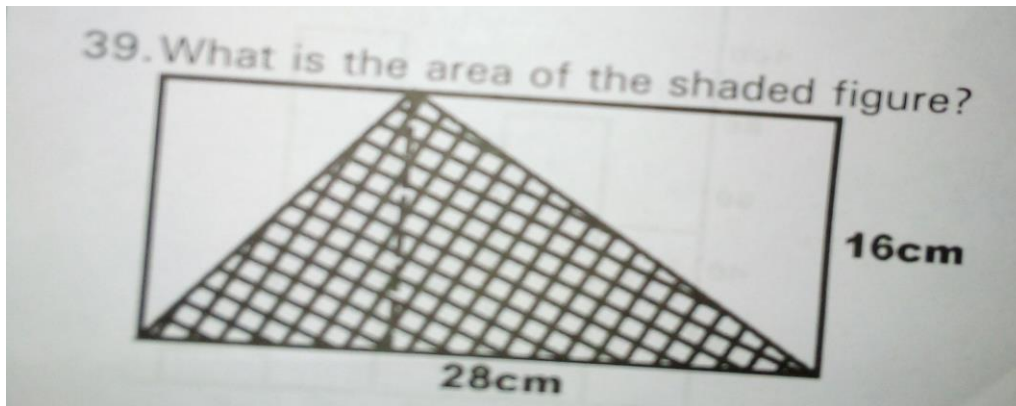
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VAT

ITEM	QTY	PRICE	AMOUNT
15000615		1 x 199.00	
MAWS BABY OIL 230ML			199.00 A
13505790		1 x 85.00	
NAIVAS WHOLEMEAL BREAD 800GMS			85.00 B
16500051		1 x 219.00	
EXCEL ORANGE JUICE 2 LTR			219.00 A
<b>TOTAL</b>			<b>503.00</b>
CASH			1,000.00
CHANGE			497.00
TOTAL ITEMS: 3			
TAX RATE		VARIABLE AMT	VAT AMT
16.00%		360.34	57.66
0.00%		85.00	0.00

38. A drama practice in a class started at 8:00am in the morning. It took 13 hours 15 minutes. At what time did the drama stop? Answer in am/pm clock system.

39. What is the area of the shaded figure?





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40. 48.052- 11.643 -

41. Wks days

18 5

X 9

42. Tones kgs

17 435

X 18

43. Calculate the side of a square whose area is 529cm<sup>2</sup>.

44.Convert 19cm 6mm into millimeters.

45.Juzi baked 479 cup cakes in one day How many cakes can he bake in two weeks ?

46. What is the weight of a grade 6 girl,48tones, 48grams, and 48kgs?

Fill in the tally and answer the questions.

Vehicle tally number

Van ~~#####~~ // 12

Car #####- //// 14

Lorry ~~###~~ // 7

47.How many vehicles were seen?

48.How many more vans than Lorries were seen ?

49.How many cars were seen?

50.Use < or>: 120 \_\_\_\_ 330



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**TEST PAPER 8**

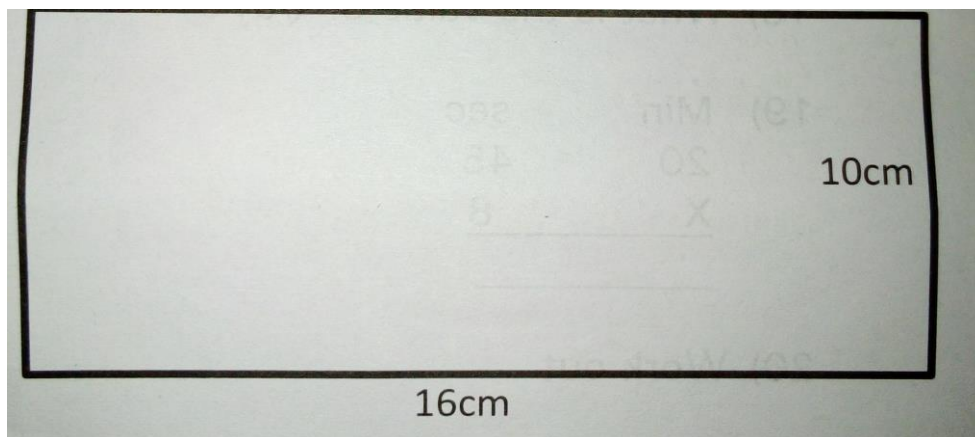
- 1) Round off 759894 to the nearest thousand.
- 2) What is the place value of 8 in 15.78?
- 3) Write three million three hundred and fifty one thousand and ten

4. Work out

695862

+483259

- 5) What is the difference between the area and the perimeter of the figure below?



- 6)  $8\frac{1}{3} - 2\frac{4}{5}$
- 7) What is the GCD of 18, 48 and 72?
- 8) Kiwi factory had 495 workers. If each worker was paid sh950. How much money were they paid altogether?
- 9) Work out  
 $\sqrt{196/576}$
- 10) Round off 56.587 correct to 2 decimal places
- 11) Work out  $18.451 - 0.23 + 0.9$



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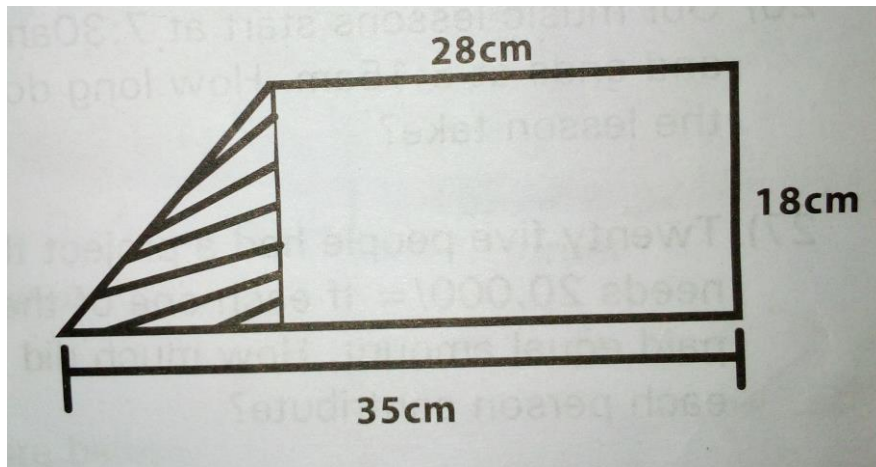
**CBC GRADE 6 ALL STRANDS & SUBSTRANDS REVISION QUESTIONS**

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12) Juma harvests 45 tonnes of maize. If we put the maize into 90kg bags

How many bags did he pack?

13) Find the area of the shaded part in the farm below



14) Find the value of  $(2 \frac{1}{8})^2$

15) Peter scored  $\frac{18}{25}$  in the home science quiz. What percentage marks did he get?

16) What is the next number in the series

2,3,5,7,.....

17) Express 0.65 as a percentage

18) What is the value of  $\sqrt{576}$

19)     Min    sec

      20     45

      X     8

20) Work out  $42.04 + 18.09$

21)     Km     m     cm

      5     523    23

      +5    724    93





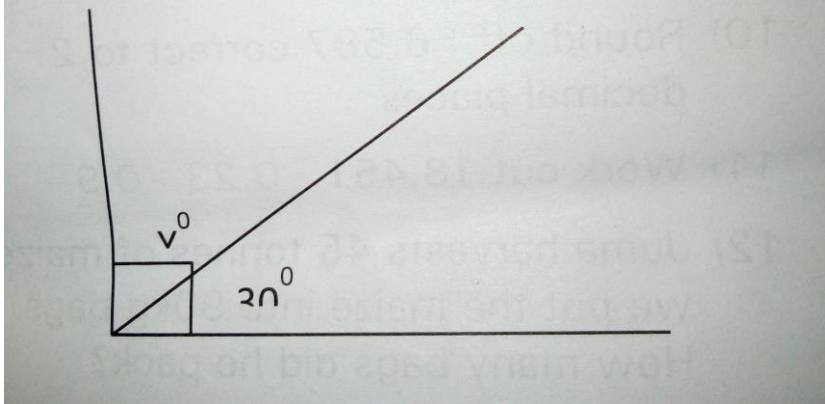
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- 22) How many milliliters are there in  $4\frac{3}{4}$  L?
- 23) The area of a triangle is  $40m^2$ . If its base is 8m what is its height?
- 24) Name the angle y



- 25) What is the reciprocal of  $9\frac{3}{5}$ ?
- 26) Our music lessons start at 7:30am and ends at 8:15 am. How long does the lesson take?
- 27) Twenty five people had a project that needs 20,000/= If each one of them paid equal amount. How much did each person contribute?
- 28) Write 59 in roman numbers
- 29) A lorry carried 3 tonnes and 500kgs.  
How many kilograms did the lorry carry?
- 30) When measuring long distance we use kilometres while in short distance  
We use...
- 31) Convert  $300,000cm^2$  into litres
- 32)  $115 \times 90 =$
- 33) One book costs sh.50 75cents. How much did peter pay for 7 such books?
- 34) What is the total value of 8 in 6842351
- 35) Round off 3.683 into two decimal places





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Write what you need

36) Television

37) Food

38) Which number is divisible by both 2 and 10

(55, 68, 90)

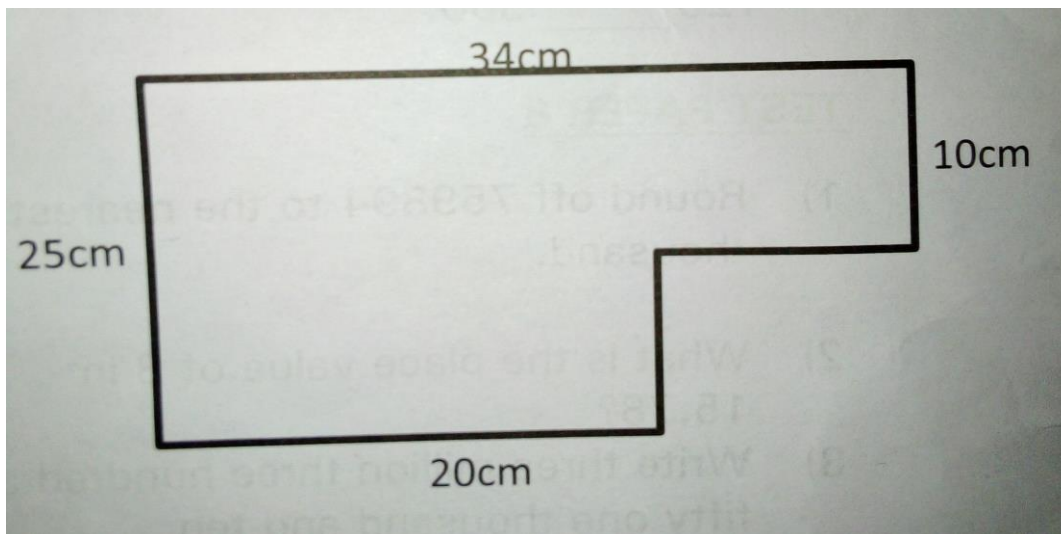
39) Juma was baking a cake. He had 15L 200ml of milk. If he used 7L 750ml of milk when baking What capacity of milk was left?

40)  $80,000 - 6,234$  is

41) What is the time in am/pm

1535hrs -

42) What is the perimeter of the figure below ?





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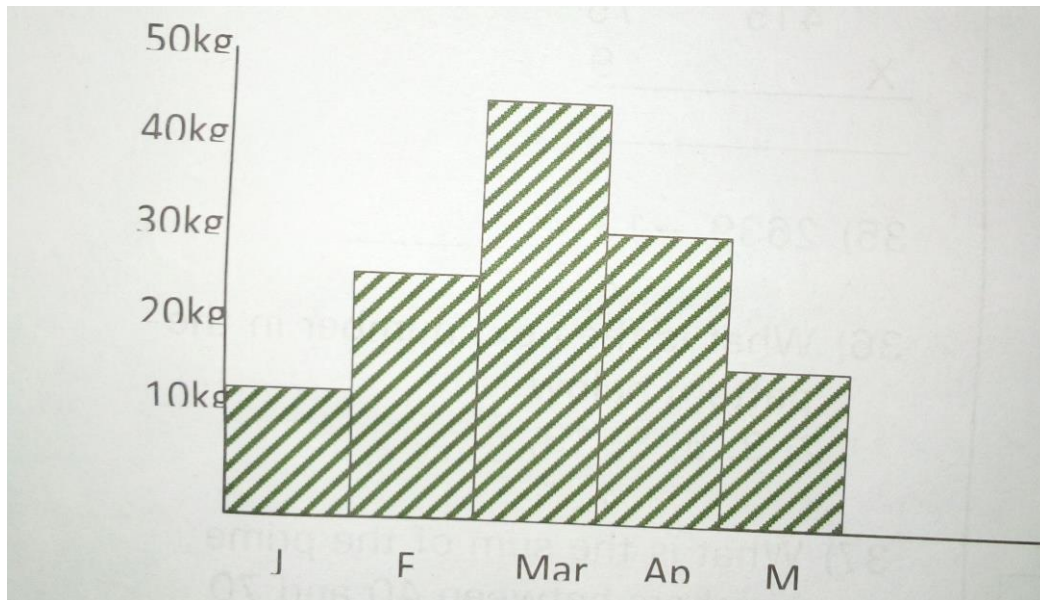


**CBC GRADE 6 ALL STRANDS & SUBSTRANDS REVISION QUESTIONS**

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43) The months of April, June and November have ..... days

Use the Graph to answer the questions



44) Which month produced most kilograms of products?

45) How many Kgs were in March and May?

46) Which month had the least production?

47) What is the difference between the most productive and least productive months

48) Work out

$$2y + 2x + 6y + 12x =$$



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49) Complete the table

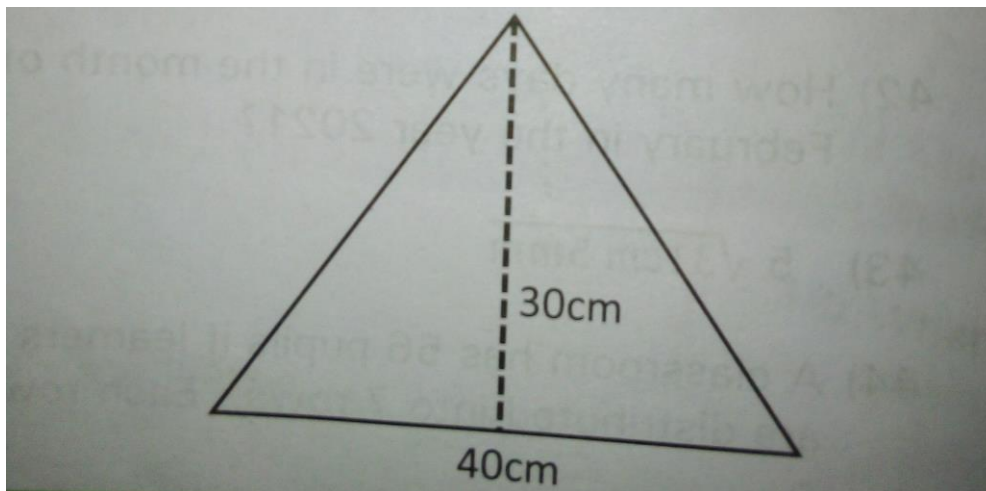
Circle    radius    Diameter    Circumference

Z        7cm

50. A    28cm

## **Test Paper 9**

- 1) Write 6616606 in words
- 2) What is the total value of digit 3 in 364895
- 3) Express 0.75 as a fraction to the simplest form
- 4) Find the area of the figure below



- 5) How many fifty shilling notes are there in one thousand shilling note?
- 6) What is  $(\frac{3}{8})^2$
- 7) Write 39 in roman numbers
- 8) A factory sold 10 tonnes of sugar, how many kilograms did the factory sell?
- 9) Workout



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**CBC GRADE 6 ALL STRANDS & SUBSTRANDS REVISION QUESTIONS**

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1376 x 32

10) Write the reciprocal of  $7\frac{9}{13}$

11) divide 4554 by 11

12) work out

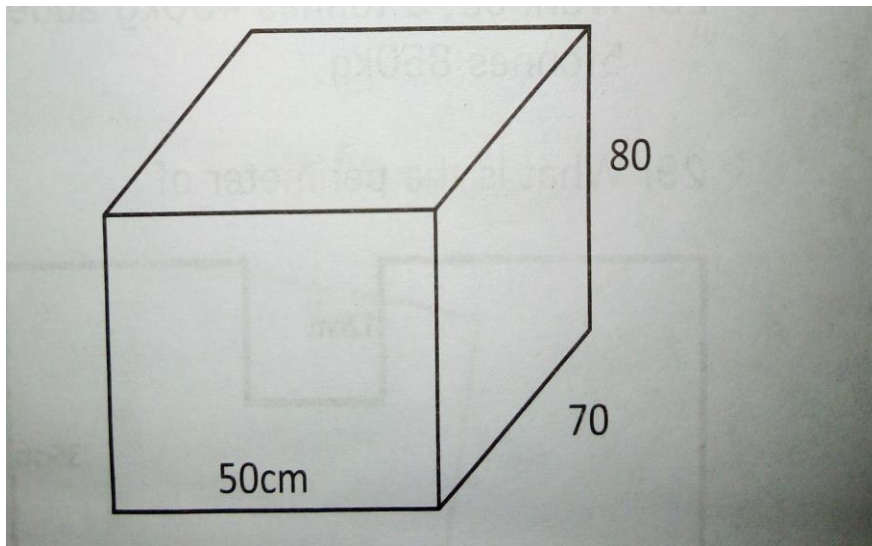
Min    sec

28    15

-14    35

13) Tom had 38694 cows in the farm and Tony had 65489 cows. How many cows did they have altogether?

14) Work out the volume of the figure below



a) volume      b) litres

15) Arrange the fractions in ascending order

$\frac{5}{6}$ ,  $\frac{1}{2}$ ,  $\frac{7}{8}$ ,  $\frac{4}{5}$ , \_\_\_\_

16) What is the LCM of 18, 20 and 62?

17) Juzi rode for 18km 495m. How many metres was it?



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18)

Km	m	cm
9	360	35
X		5

19) What is the reciprocal of  $3 \frac{2}{7}$

201 A sugar company paid 28 workers sh350- per worker in a day. How much were they paid in one week if they worked from Monday to Friday?

211 The fraction  $\frac{2}{3}, \frac{1}{4}, \frac{3}{4}, \frac{3}{8}$  arranged from smallest to largest is.....

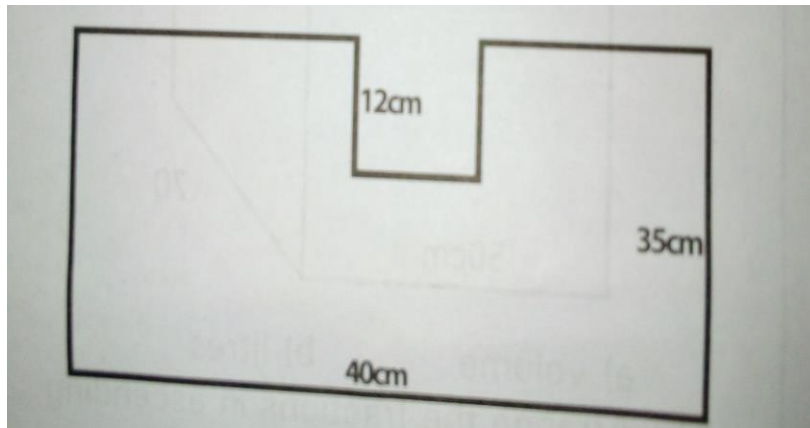
26) How many millilitres are there in  $4 \frac{1}{4}$  litres of cooking oil?

271 Agnes scored 839% in a swimming practical What was her score in decimal ?

28) Work out

3 tonnes 450kg added to 5 tonnes 850kg

29) What is the perimeter of



30) Convert 5L to  $\text{cm}^3$

31)	Weeks	days
	8	5
	+7	6



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321 Work out

801071- 9987

33) What is the sum of the first ten odd numbers?

34)   Sh       cts  
      415     75  
      X       9

35)  $2639 \div 13 =$

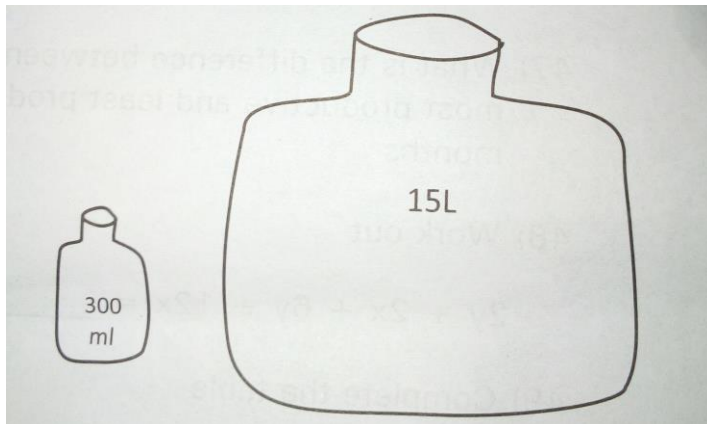
36) What is the next number in the pattern below

2. 3 5. 8. 13,

37) What is the sum of the prime numbers between 40 and 70

38) In a town the market was opened at 0830hrs and closed at 1845hrs. How many hours and minutes was the market opened?

39) How many 300ml bottles will fill the 15litres container?



40) The table below shows the number of people vaccinated in 4 towns against covid 19

If the total of people vaccinated in the four towns were 15,000. How many were vaccinated in town C?

41) What is  $7,500,000\text{cm}^3$  into litres?

42) How many days were in the month of February in the year 2021?





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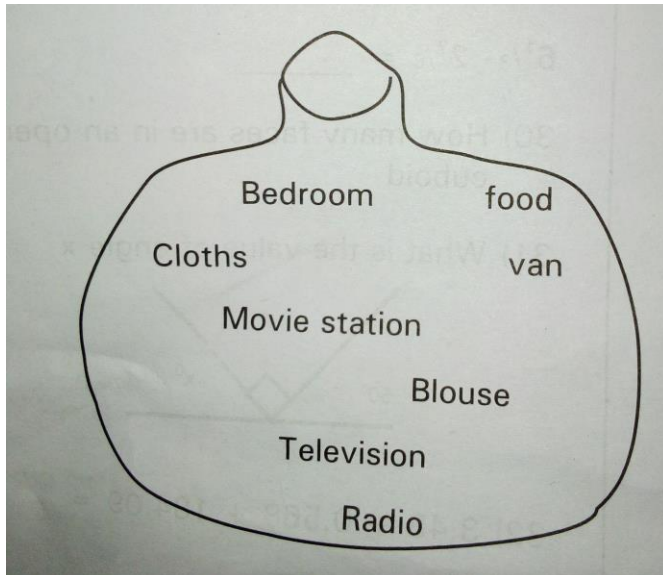
**CBC GRADE 6 ALL STRANDS & SUBSTRANDS REVISION QUESTIONS**

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43)  $5\sqrt{31}$  cm 5 mm

44) A classroom has 56 pupils if learners are distributed into 7 rows. Each row will have \_\_\_ pupils

Identify the needs and wants from the pot below



45) Wants

46) Needs

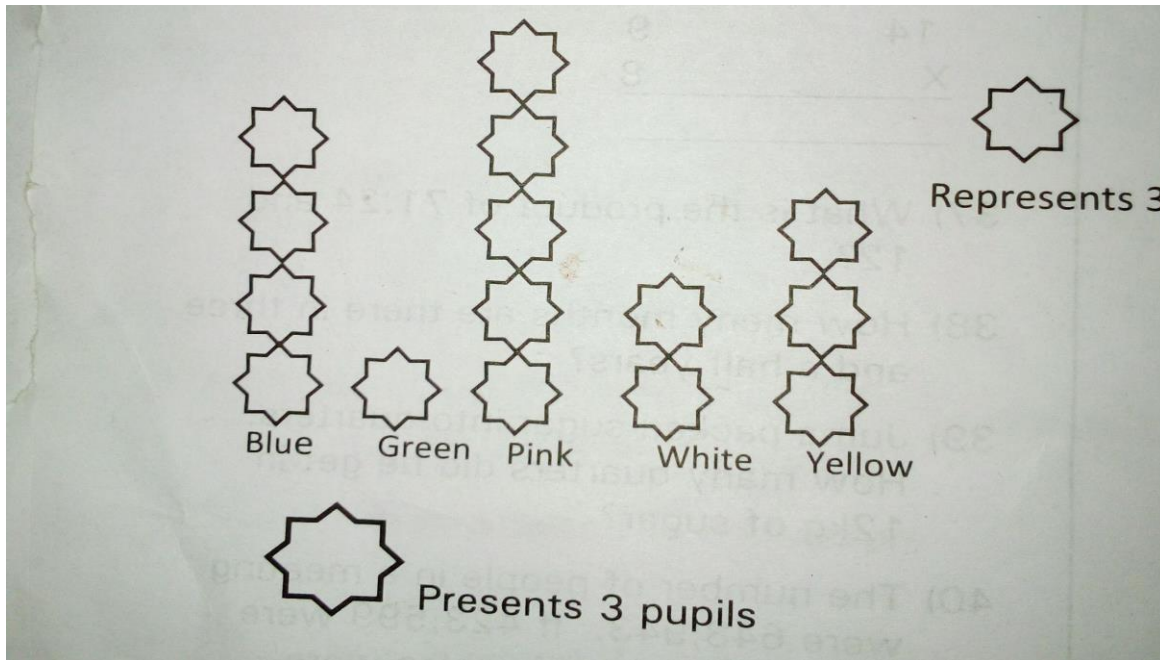
47) Which number has the biggest value

2410, 2309, 2478, 2459

Grade six learners liked different colours. Their like was recorded in a pilling as shown below



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- 48) How many learners liked colour pink?
- 49) How many more pupils liked colour pink than colour green?
- 50) How many learners were in that class if none picked two colours and all picked a colour?

**TEST PAPER 10**

- 1 Write seven hundred and nine thousand four hundred and nineteen in symbols
- 21 Round off 14.9028 to the nearest hundredths
- 3) What is the total value of digit 8 in  
3281694
- 4) Which smallest number can be obtained from the following numbers



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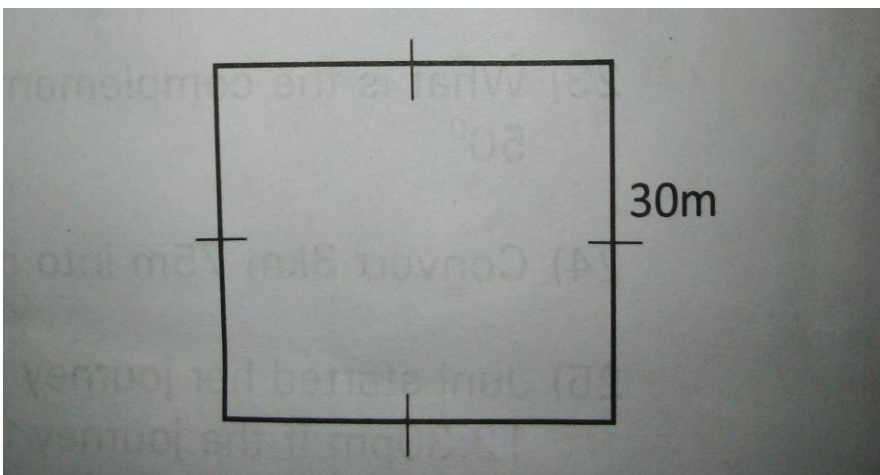


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587642

- 5) What is the sum of the LCM and GCD of 16, 24 and 36?
- 6) What is the square root of 16?
- 7) What is the reciprocal of  $\frac{4}{9}$ ?
- 8) What is the sum of prime numbers between 2 and ten?
- 9) Work out  $(\frac{3}{7})^2$
- 10) What is the value of the quotient  $325 \div 5 =$
- 11) What is the area of the figure below?



- 12) Convert  $6\frac{3}{4}$  L in millilitres
- 13) Work out 80% of 400
- 14) Kim bought a goat at sh600 and later sold it for sh900. What was the profit?
- 15) Convert 4:00am into 24hr clock system
- 16) What is the next number in the series?  
1, 4, 9, 16, 25, \_\_\_\_\_
- 17) Work out



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26260 ÷ 13

18 Express  $1\frac{1}{4}$  as a fraction in its simplest form

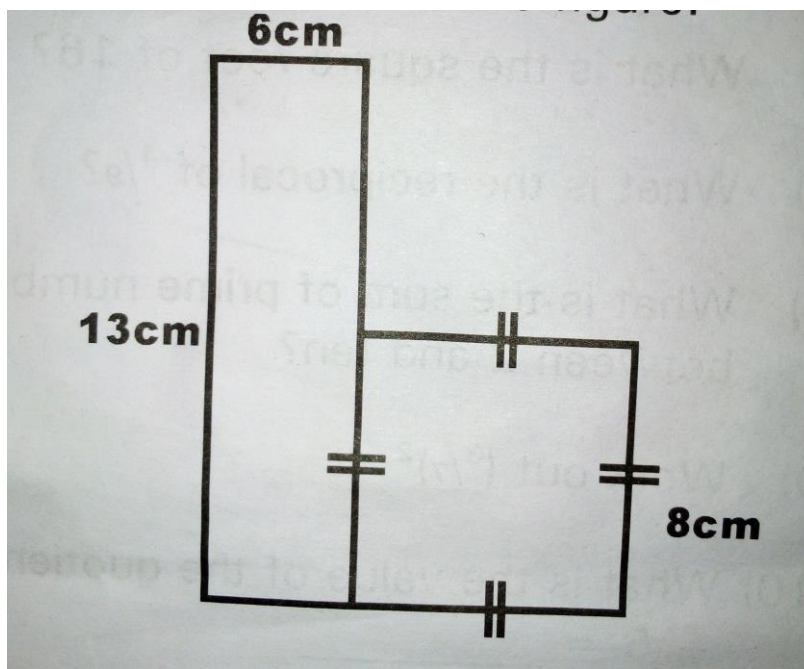
19 Solve

$\_\_ \div 5 = 70$

20) Solve

$\sqrt{1\frac{3}{16}}$

21) Find the area of the figure



22) Work out  $175 + 7890 + 1070 + 16489 =$

23) What is the complementary angle of 50 degrees

24) Convert 3km 75m into meters

25) Juni started her journey to Nakuru at 12:30pm. If the journey took 8hrs 45 min, what was her arrival time in 24 hours clock system.



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**CBC GRADE 6 ALL STRANDS & SUBSTRANDS REVISION QUESTIONS**

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26) A tank is 100cm long 120cm wide and 60cm high. How much water in litres does it hold when it is full?

27) What is the name of the angle below

a) it is more than  $90^\circ$

b) it is less than  $180$

The angle is

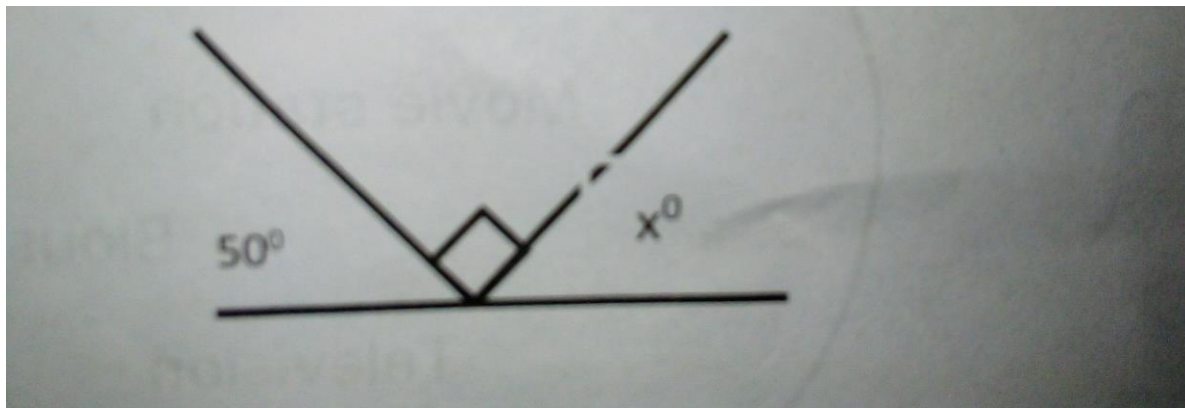
28) What is the perimeter of a square whose side is 15cm

29) Work out

$6\frac{1}{3} - 2\frac{7}{8}$

30) How many faces are in an open cuboid

31) What is the value of angle x



32)  $3.48 + 0.568 + 184.09 =$

33) How many hundreds are in 846932

34) In a day Juma can bake 3494 biscuits how many biscuits can he bake in the month of July?

35) Convert  $6\frac{1}{2}$  hours into minutes



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36) Cm mm

14 9

X 8

37) What is the product of 71.24 and 12?

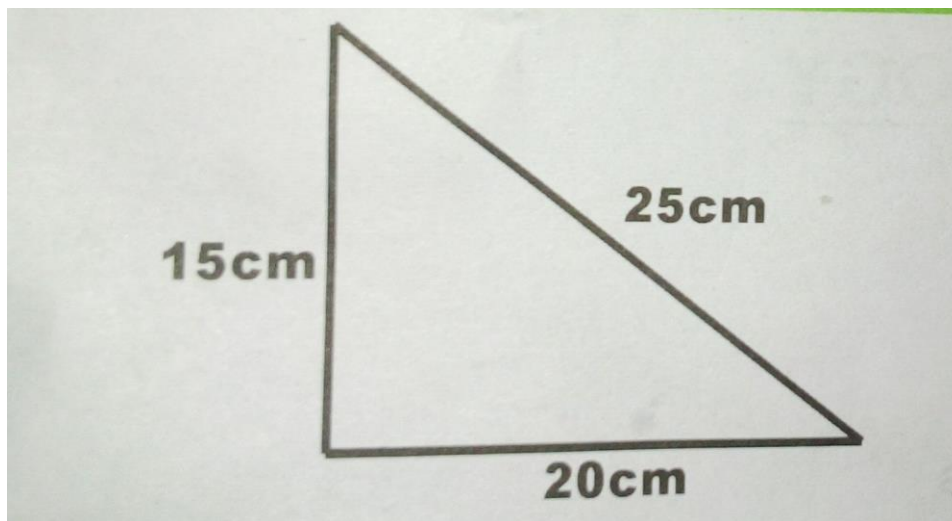
38) How many months are there in three and a half years?

39) Juma packed sugar into quarters. How many quarters did he get in 12kg of sugar?

40) The number of people in a meeting were 648,943. If 423,599 were male, how many females were present?

41) How many tonnes are there in 48,000kg of sand in a lorry?

42) What is the area of the figure below



43) Write VAT in words

44) What is the name of this angle

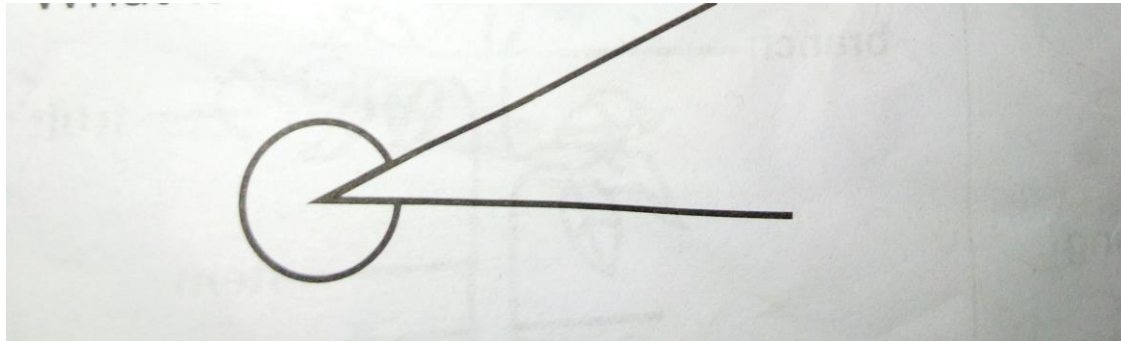




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Use the table shown below

Airport	Arrival	Departure
P		1020hrs
Q	1120hrs	1220hrs
R	1300hrs	1325hrs
S	1345hrs	1400hrs
T	1430hrs	

- 45)How long does the Aeroplane take to fly from P to Q?
- 46)What is the departure from R in 12 hour clock system?
- 47)How long does the plane take from airport P to T?
- 48)Which is the longest stopover
- 49)The time on the timetable above is in \_\_\_\_clock system.
- 50)The arrival at airport T in am and pm is?