

KPSEA 2024 KEY AREAS

MATHEMATICS

{200 MATHEMATICS PREDICTION QUESTIONS}

{COMMONLY KPSEA TESTED QUESTIONS}

*A Series of KPSEA 2024 Prediction Questions
Prepared by a Pannel of Top KNEC Examiners HQ
Nairobi*

**All KPSEA 2024 Candidates are advised to take the
questions Serious!**

Confidential!!!

For Marking Schemes

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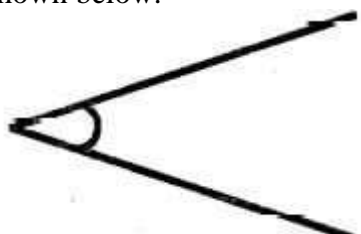
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1. In a wedding ceremony, Grade six learners carried 2 342 chairs. They later went for 1 009 more chairs. Out of these, 1 810 were used. How many were not used?
 - A. 1 641
 - B. 1 541
 - C. 1 531
 - D. 1 631
2. In an Agricultural Exhibition, there were 324 867 participants. What is the place value of digit 2 in this number?
 - A. Hundreds.
 - B. Tens of thousands.
 - C. Thousands.
 - D. Hundreds of thousands.
3. Work out the LCM of 8 and 12.
 - A. 2
 - B. 12
 - C. 32
 - D. 24
4. Round off 43 866 to the nearest hundred.
 - A. 43 900
 - B. 43 860
 - C. 44 000
 - D. 43 800
5. Out of 12 864 chickens in a school, 6 028 were cocks and the rest were hens. How many hens were there?
 - A. 18 892
 - B. 18 792
 - C. 6 836
 - D. 6736
6. The distance between town X and town Y is 2 700m. How many kilometres and metres are between the two towns?
 - A. 2km 700m
 - B. 27km 00m
 - C. 2km 700m
 - D. 270km 00m
7. Mwendu has a square piece of cloth whose side is **18cm**. What is the area of the piece of cloth?
 - A. 36cm^2
 - B. 360cm^2
 - C. 324cm^2
 - D. 334cm^2
8. Kilo carried **29kg** of maize while Kaloki carried **33kg** of sorghum. What was the total mass carried by the two?
 - A. 957kg
 - B. 602kg
 - C. 952kg
 - D. 62kg
9. How many $\frac{1}{4}\text{kg}$ packets can be obtained from **9kg**?
 - A. 36
 - B. 18
 - C. 4
 - D. 24
10. A tuktuk covered **16km 61m** while a motorbike covered **18km 95m**. What was the total distance covered?
 - A. 34km 156m
 - B. 35km 56m
 - C. 34km 56m
 - D. 35km 156m
11. Work out:

hrs	mins
5	16
x _____	7
A. 35hrs 52mins B. 36hrs 112mins C. 35hrs 112mins D. 36hrs 52mins	
12. Calculate the length of one side of a square whose area is **289cm^2**
 - A. 27cm
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13. In the first attempt, an athlete finished a marathon race in 3. 45 hours. In the second attempt, he reduced the time by 1.09 hours. What time did he take in the second attempt?
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D. $\frac{3}{10}$, $\frac{7}{10}$, $\frac{5}{10}$, $\frac{9}{10}$
15. Work out:
 361×18
A. 6 488
B. 6 398
C. 5 488
D. 6 498
16. One hundred and eight seedlings were to be shared equally among twelve farmers. How many seedlings would each farmer get?
A. 19
B. 1 111
C. 1 296
D. 9.
17. An NGO organisation donated 1291 600kg of maize to be shared equally among 8 boarding schools in a sub county. What mass of maize did each school get?
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21. Mr Hisabati drew an angle like the one shown below.
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- What is the name of the angle?
A. Obtuse angle.
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D. Right angle.

The table below shows the sale of milk in Mwanda's farm for a period of five days. Use it to answer the following questions.

Day	Amount sold in litres
Monday	146
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22. How many less litres of milk were on Wednesday than on Friday?

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- B. 130ℓ
- C. 230ℓ
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- A. Monday and Tuesday.
- B. Tuesday and Wednesday.
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24. How much milk was sold on Monday, Tuesday and Thursday?

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25. How much milk was sold on Monday, Tuesday and Thursday?

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- A. Land fees, school fees, parking fee, cess
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27. Which of the following statements does **not** describe a rectangle? It has

- A. four equal sides.
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28. A father bought ℓ hens. A mother bought **16** more hens. In total, **25** hens were bought. How many hens did the father buy?

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29. Mariarosa received **x** beads after their teacher divided **125** beads

- equally among 5 of them. How many beads did Mariarose get?
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D. 45
30. A carpenter made 32 cupboards, 18 tables and y stools. If the total number of furniture was 63, how many stools were made?
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 - 50
 - 53

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60. How much milk was sold on Monday, Tuesday and Thursday?

- A. 1 256ℓ
- B. 1 246ℓ
- C. 656ℓ
- D. 666ℓ

61. What is **73599** rounded off to the nearest thousands?

- A. 73000
- B. 73600
- C. 74000
- D. 70000

62. Which one is ninety thousand eight hundred and sixty four in symbols?

- A. 900864
- B. 90864
- C. 9864
- D. 19864

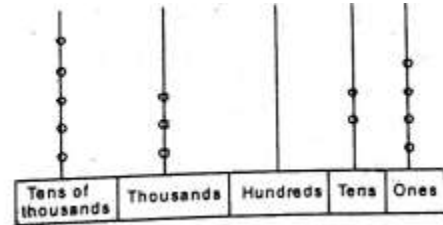
63. What is the sum of **37423** and **3597**?

- A. 41020
- B. 40020
- C. 41010
- D. 433826

64. What is the place value of digit 4 in the number **324819**?

- A. Hundreds
- B. Thousands
- C. Ten thousands
- D. Millions

65. Which number is represented by the abacus below?



- A. 5324
- B. 53024
- C. 53024
- D. 500324

66. What is the time shown below at night?



- A. 5:40pm
- B. 8:25am
- C. 5:40am
- D. 8:25pm

67. There are **527875** registered voters in a certain town. If **224435** are men, how many women voters are there?

- A. 330440
- B. 3030440
- C. 304340
- D. 303440

68. What is the Greatest Common Divisor of **27**, **36** and **45**?

- A. 6
- B. 12
- C. 9
- D. 3

69. Add: **83992 + 15315 =**

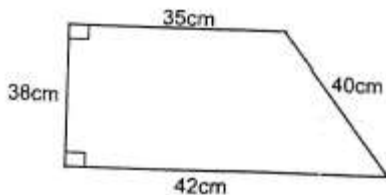
- A. 99370
- B. 99037
- C. 99307

- D. 93907
70. What is the next number in the sequence below?
12, 24, 36, 48,

A. 80
B. 70
C. 60
D. 50

71. Work out: $3612 \div 12$
- A. 301
B. 3001
C. 31
D. 30001

72. What is the perimeter of the figure below?



- A. 145cm^2
B. 165cm^2
C. 135cm^2
D. 155cm^2
73. Add: **6.295** to **12.38**
- A. 7.543
B. 17.675
C. 18.675
D. 19.675

74. Work out:

kg	g
15	240
×	5

- A. 76kg 200g
B. 70kg 200g
C. 76kg 20g
D. 75 20

75. Kate had **2486** litres of milk. She sold **568** litres on a Monday. How much milk was not sold?

A. 1718
B. 1918
C. 1818
D. 1917

76. Which number is divisible by both **5** and **10**?

A. 600
B. 405
C. 803
D. 625

77. How many **sh. 20** coins are there in **sh. 500** note?

A. 10
B. 520
C. 25
D. 50

78. Petrol in a **40** litres **800ml** container was emptied to fill **8** equal containers. What was the capacity of each container?

A. 50 litres 10ml
B. 5 litres 100ml
C. 5 litres 10ml
D. 50 litres 100ml

79. An athlete took **80 minutes** to run a race. How many seconds did he use?

A. 80sec

B. 240sec
C. 480sec
D. 4800sec

80. Work out: $427 \times 9 =$

A. 3643
B. 4743
C. 3843
D. 3833

81. A farmer harvested **9340g** of honey.
What is the mass in kg and
grammes?

- A. 93kg 4g
- B. 93kg 40g
- C. 9kg 340g
- D. 93kg 400g

82. Mariarosa received **x** beads after
their teacher divided **125** beads
equally among **5** of them. How many
beads did Mariarose get?

- A. 25
- B. 35
- C. 15
- D. 45

83. Work out:

Week	Days
8	0
-6	2

- A. 2weeks 5days
- B. 3weeks 2days
- C. 2weeks 2days
- D. 1week 5days

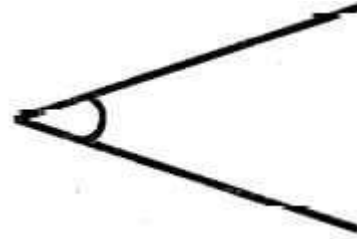
84. What is the value of **200 - 275 + 125**?

- A. 50
- B. 100
- C. 115
- D. 150

85. What is the place value of digit **7** in
the number **31.247**?

- A. ones
- B. tenths
- C. hundredths
- D. thousandths

86. Mr Hisabati drew an angle like the
one shown below.



What is the name of the angle?

- A. Obtuse angle.
- B. Reflex angle.
- C. Acute angle.
- D. Right angle.

87. Mary got **x** marks, Monica got **y**
marks an Martha got **z** marks. How
many marks did they get altogether?

- A. $x - y - z$
- B. xyz
- C. $x + y + z$
- D. $x - y + z$

88. How many days are there in the
months of July and August in the
year 2023?

- A. 90
- B. 91
- C. 92
- D. 89

89. Add:

m	cm
8	85
+5	25

- A. 13m 110cm
- B. 14m 10cm

- C. 14m 110cm
D. 13m 10cm
90. Which fraction has the least value?
- A. $\frac{3}{4}$
B. $\frac{5}{12}$
C. $\frac{1}{6}$
D. $\frac{2}{3}$
91. Nabutola cycled for **8000m**. What distance did she cover in **km**?
- A. 800km
B. 80km
C. 8km
D. 0.8km
92. Work out:
605 – 112 + 328?
- A. 821
B. 493
C. 933
D. 531
93. Work out:
- | Litres | Mililitres |
|-------------|------------|
| 457 | 650 |
| <u>-341</u> | <u>240</u> |
| | |
- A. 798 litres 890ml
B. 798 litres 890ml
C. 206 litres 340ml
D. 116 litres 410ml
94. A brick measures **18cm** long, **15cm** and **9cm**. What is its volume?
- A. 2430cm^3
B. 2340cm^3
- C. 2330cm^3
D. 42cm^3
95. What is the value of:-
- | sh. | cts |
|------------|-----------|
| 142 | 30 |
| <u>-18</u> | <u>90</u> |
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- A. sh.122 40cts
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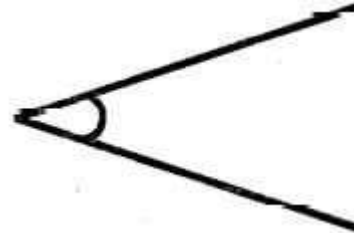
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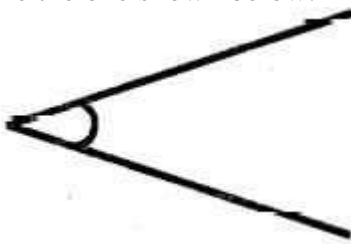
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A. 19
- B. 9
C. 41
D. 8
124. Mariarosa received **x** beads after their teacher divided **125** beads equally among **5** of them. How many beads did Mariarose get?
A. 25
B. 35
C. 15
D. 45
125. A carpenter made **32** cupboards, **18** tables and **y** stools. If the total number of furniture was **63**, how many stools were made?
A. 23
B. 13
C. 50
D. 53
126. Farmers from Konambaya county delivered 492 600 kilograms of millet. What is the place value of digit 4 in this number?
A. Tens of thousands.
B. Hundreds of thousands.
C. Four hundred thousand.
D. Millions.
127. A trader had three hundred and forty nine thousand, eight hundred and seventy two shillings in his account. How much is this in symbols?
A. Sh. 394 872
B. Sh. 384 972
C. Sh. 349 972
D. Sh. 349 872
128. Round off 56 380 to the nearest thousand.
A. 56 000
B. 56 300
C. 60 000
D. 56 400

129. Kiambamba mixed 3.027 litres of water to 2.638 litres of milk to prepare tea. How much tea did he prepare?
 A. 6.6651
 B. 5.6551
 C. 6.6551
 D. 5.6651
130. Convert 40% as a fraction in its simplest form.
 A. 40/100
 B. 2/5
 C. 4/10
 D. 2/50
131. During campaign, an outgoing governor distributed 2 793 T-shirts equally among 147 regions. How many T-shirts did each region receive?
 A. 29
 B. 19
 C. 18
 D. 27
132. Multiply: 2 141 x 16
 A. 33 156
 B. 34 246
 C. 34 256
 D. 33 255
133. Take away $7/11$ from $7/9$
 A. $14/21$
 B. $7/9$
 C. $7/36$
 D. $1/36$
134. A teacher wrote $77 + 23 \times 57 + 19 - 11$ on the chalkboard and asked her learners to work it out. If the learners worked it out correctly, what answer did they get?
 A. 240
 B. 140
 C. 235
 D. 135
135. What is the square root of 361?
 A. 29
 B. 19
 C. 17
 D. 27
136. Mwamburi's string is 7cm long while Mwakideu's is 2cm shorter. What is the total length of their strings?
 A. 9 cm
 B. 900 mm
 C. 12 000 mm
 D. 12cm
137. A grandmother cooked 12 litres 500ml of porridge. She gave 9 litres 600ml to her farm workers and the rest to her grandchildren. How much porridge did she give to her grandchildren?
 A. 22l 100ml
 B. 2l 100 ml
 C. 2l 1100ml
 D. 2l 900ml
138. The circumference of a circle is 22cm and its diameter is 7cm. How many times in the circumference longer than the diameter?
 A. 15
 B. $3\frac{1}{7}$
 C. $7/22$
 D. $7\frac{1}{3}$
139. Work out; Sh Cts
 325 40
 - 150 80

 A. sh 175 60 cts
 B. Sh 174 60 cts
 C. Sh 175 20cts
 D. Sh 476 20cts

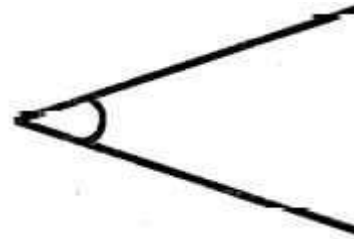
140. A donkey cart was loaded with 490kg of nails, 500kg of cement and 370kg of iron sheets. What is the total mass in tonnes?
 A. 1 360t
 B. 1.36t
 C. 13.6t
 D. 136.0t
141. A marathon runner runs 13km 650m in aday. What distance does she cover in four days?
 A. 53km 600m
 B. 54km 600m
 C. 52km 2 600m
 D. 17km 650m
142. An NGO organisation donated 1291 600kg of maize to be shared equally among 8 boarding schools in a sub county. What mass of malze did each school get?
 A. 16t 1600kg
 B. 15t 200kg
 C. 16t 200kg
 D. 15t 1600kg
143. A radio program started at 8.30pm. At what time did it start in 24 hour clock system?
 A. 2030h
 B. 0830h
 C. 8030h
 D. 3020h
144. Joan bought three bens each sh. 400. She later sold them for sh. 550 cach. What was her profit
 A. Sh. 1 650
 B. Sh. 1 200
 C. Sh. 450
 D. Sh. 550
145. Robin took 5 minutes 45 seconds to walk from his house to the shop. He took 7 minutes 23 seconds to walk back bomo. How long did he take to walk to the shop and back?
 A. 12 minutes 68 seconds
 B. 12 minutes 8 seconds
 C. 2 minutes 22 seconds
 D. 13 minutes 8 seconds
146. Mr Hisabati drew an angle like the one shown below.
- 
- What is the name of the angle?
 A. Obtuse angle.
 B. Reflex angle.
 C. Acute angle.
 D. Right angle.
147. Which one of the following lists shows money paid by the public to a county government of Kenya?
 A. Land fees, school fees, parking fee, cess
 B. Market fees, cess, business permit, security fee
 C. Market fees, business permit, cess, parking fee
 D. Land fees, security fee, business permit, parking fee
148. Angles are measured in units called

- A. protractors.
B. metres.
C. centimetres.
D. degrees.
149. Ole Macho had 25 cows and n sheep. If the total number of animals was 80, which of the following equations can be used to find the value of n ?
A. $80 = 25 - n$
B. $80 + 25 = n$
C. $25 + n = 80$
D. $25 + n = 80$
150. Matunda had p oranges and 15 mangoes. If the total number of fruits was 32, what is the value of p ?
A. 17
B. 47
C. 15
151. There are x male teachers in a school. The total number of male and female teachers is 34. How many female teachers are there?
E. $17x$
F. $x + 17$
G. $17 - x$
H. $34 - x$
152. A block of wood is 3 metres long. What is the length of the block of wood in centimetres?
A. 30
B. 300
C. 3000
D. 30000
153. Patel had a sh 1000 note. He changed the money into different denominations. Which one of the following represents the correct change?
A. sh 500 + sh 200 + sh 100 + sh 50
+ sh 50
B. sh 200 + sh 200 + sh 200 + sh 200 + sh 100 + sh 50
C. sh 500 + sh 200 + sh 100 + sh 100 + sh 50
D. sh 500 + sh 200 + sh 200 + sh 100
154. What is the next missing number in the pattern?
10, 12, 16, 24, 40, _____
A. 32
B. 42
C. 64
D. 72
155. A trader bought 260 kg of sugar. He then sold 175 kg of the sugar. Later, the trader bought 195 kg to add to the remainder. How many kilograms of sugar does the trader have now?
A. 20
B. 85
C. 280
D. 455
156. A trader had three hundred and forty nine thousand, eight hundred and seventy two shillings in his account. How much is this in symbols?
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A. 20
B. 85
C. 280
D. 455
186. The population of a certain county is seven hundred and six thousand and eighty two. What is the number in symbols?
A. 706 802
B. 706 082
C. 760 082
D. 706 820
187. A milk processing plant received 6085047 litres of milk.

- What is the place value of digit 8 in the number?
- Thousands
 - Hundreds
 - Ten thousand
 - Hundred
188. What is the total value of digit 5 in the number 7,508042?
- 5000
 - 50000
 - 5000000
 - 500000
189. The population of six towns is 453619, 453691, 435916, 453916, 453819 and 435619. Arrange the numbers from the smallest to the largest.
- 453918, 4536891, 453619, 435916, 435691, 435619.
 - 453916, 435916, 453891, 435691, 453619, 435619:
 - 435619, 435 691, 435916, 453619, 453691,435916.
 - 453619, 435619, 453691,435691, 453916, 435916.
190. Juma had Sh.35449 in his bank account. How much money to the nearest thousands did Juma have?
- Sh.35400
 - Sh.35500
 - Sh. 35000
 - Sh. 35450
191. Maria bought 15kg 75g of rice. What was the mass of the rice bought in grams?
- 15075
 - 15750
 - 1575
 - 15705

192. What is the place value of digit 3 in the number:- 807.4035?
- Tenths
 - Thousandths
 - Hundredths
 - Thousands
193. Rehema bought $\frac{3}{4}$ kg of meat. She cooked $\frac{1}{2}$ kg of the meat. How many kilograms remained?
- $\frac{1}{4}$ kg
 - $\frac{5}{4}$ kg
 - $\frac{2}{4}$ kg
 - $\frac{1}{2}$ kg
194. The following is a price list in a shop

Item	Price
A loaf of bread	Shs 60
A pencil	Shs 25
geometrical set	Shs 280
1kg of maize flour	Shs 190
A bar of soap	Shs 140

Jane bought the following items

- 6 pencils
 - 5 loaves of bread
 - 2 geometrical sets
 - 3kg of maize flour
- She gave a shopkeeper 2-shs 1000. How much did she receive as a balance?
- Shs 420
 - Shs 1 505
 - Shs 495
 - Shs 1 580
195. A lorry carried 745 cartons of textbooks. Each carton had 24 textbooks. How many textbooks did the lorry carry altogether?

- A. 17880
B. 17860
C. 769
D. 2960
196. What is 3672 divided by 12?
A. 36
B. 306
C. 360
D. 3006
197. During malaria outbreak, the government distributed 13 720 mosquito nets to 56 families. How many nets did each family get?
A. 13 720
B. 17 776
C. 542
D. 245
198. **Work out:-** $14 + 6 \times 4 - 24 \div 4$
A. 14
B. 3.5
C. 74
D. 32
199. Find the greatest number that can divide 48 and 60?
A. 240
B. 12
C. 120
D. 6
200. The table below shows the number of 3 fruits sold by a fruit vendor.

How many more avocados than pineapples were sold?

- A. 10
B. 7
C. 17
D. 24

Type of fruit	Tally marks
Mangoes	
Avocados	
Apples	
Pineapples	