

# KCPE PREDICTION 2018

## PREDICTION PAPERS 2018

- Which one of the following is sixty million four hundred and seven thousand and eight hundredths?
 

A. 6407000.08                      B. 60047000.08

C. 60407000.08                      D. 60407.008
- What is the number 7214.8932 rounded off to the nearest hundredths?
 

A. 7214.89                              B. 7214.8900

C. 7214.90                              D. 7214.893
- What is the value of  $\frac{3}{4}$  of  $5\frac{1}{3} + 6\frac{2}{5} \div 1\frac{1}{3} - \frac{1}{5}$ ?
 

A.  $7\frac{3}{5}$                                       B.  $5\frac{3}{5}$

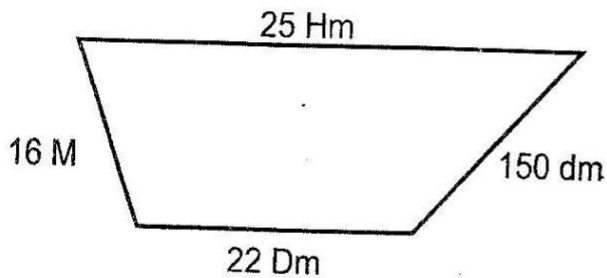
C.  $7\frac{18}{25}$                                   D.  $8\frac{3}{5}$
- What is the next number in the sequence? 13, 17, 30, 47, \_\_\_\_
 

A. 65                                        B. 77

C. 76                                        D. 66
- The length of a road is 4 km, trees were planted on both sides of the road. If the trees were planted two metres apart, how many trees were planted altogether?
 

A. 200                                        B. 201

C. 2002                                      D. 2001
- Find the perimeter of the figure below in km



- A. 213 km                                      B. 2.895 km
- C. 27.51 km                                  D. 2.751 km

## MATHEMATICS

- Angela bought four trays containing 30 eggs each at sh. 150, forty eggs broke. If he sold the remaining eggs at sh. 6 each. What was his percentage loss?
 

A. 120%                                      B. 20%

C. 25%                                        D. 16%
- Hussein bought the following items.
 

Four – 2 kg tins of cooking fat @ sh. 210

1 kg of meat for sh. 250

4 loaves of bread at sh. 45

500 ml bottle of kerosene at sh. 100 per litre

2 kg packet of maize flour @ sh. 200

If he paid with a two-one thousand shilling notes. How much balance did he receive?

A. sh. 1 520                                  B. sh. 1 720

C. sh. 480                                    D. sh. 280
- Arrange the following numbers in descending order  $\frac{2}{5}$ , 46%, 0.36,  $\frac{5}{6}$ 

A.  $\frac{5}{6}$ , 46%,  $\frac{2}{5}$ , 0.36                      B. 0.36,  $\frac{2}{5}$ , 46%,  $\frac{5}{6}$

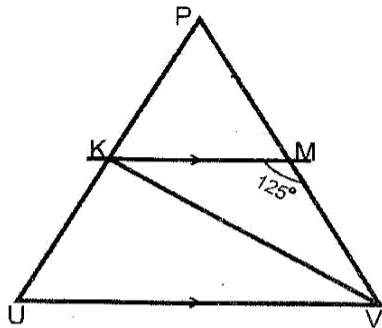
C.  $\frac{5}{6}$ ,  $\frac{2}{5}$ , 46%, 0.36                      D.  $\frac{2}{5}$ , 0.36, 46%,  $\frac{5}{6}$
- Which one of the following expression is the simplified form of  $\frac{3x + 3(x + 2y) - 2x + 2y}{2x}$ 

A.  $\frac{4x + 8y}{2x}$                                         B.  $\frac{2x + 8y}{2x}$

C.  $\frac{2x + 4y}{x}$                                          D.  $\frac{8x + 8y}{2x}$
- Samba had a cylindrical jerrican which had a base of 250 cm<sup>2</sup> and 60 cm high. It contained medicine up to  $\frac{2}{5}$  level. If he transferred the medicine into 10 decilitre bottles, how many bottles did he fill?
 

A. 1500                                        B. 15

C. 6    D. 60
- In the diagram below KM is parallel to UV. PKU and PMV are straight lines, angle KPM is 65° and KMV is 125°



What is the size of angle KUV?

- A.  $120^\circ$                       B.  $55^\circ$   
 C.  $60^\circ$                          D.  $115^\circ$

13. Which of the following measurement will NOT be used to form a right angled triangle?

- A. 0.21 cm, 0.72 cm, 0.75 cm  
 B. 0.25 cm, 0.6 cm, 0.65 cm  
 C. 18 cm, 24 cm, 30 cm  
 D. 25 cm, 144 cm, 169 cm

14. Oloo slept at 2318hrs on Thursday and woke up three hours later. When did he wake up?

- A. Friday 2.18 am              B. Thursday 2.18 am  
 C. Friday 2.18 pm              D. Thursday 2.18 pm

15. The height of six pupils were recorded as 1.24 m, 1.84 m, 1.42 m, 1.50 m, 1.24 m, 1.72 m, what was the median height?

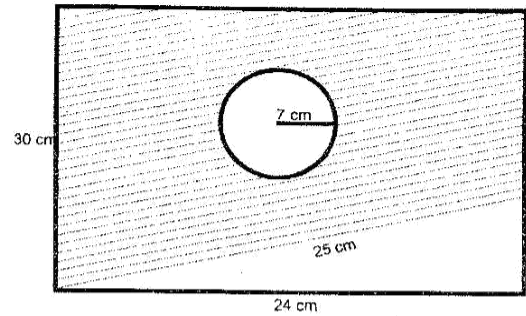
- A. 1.24 m                         B. 1.49 m  
 C. 1.46 m                         D. 1.50 m

16. The length of a river is 35 km, it is represented on a map by 2.5 cm.

Find the scale used?

- A. 1:14000000                    B. 1:1400000  
 C. 1:1400                         D. 1:14000000

17. Find the area of the shaded part in the figure shown below.



- A.  $154 \text{ cm}^2$                       B.  $720 \text{ cm}^2$   
 C.  $482 \text{ cm}^2$                       D.  $636 \text{ cm}^2$

18. Kamore paid sh 1500 for an item after getting a 15% discount. What would have been the percentage discount if Kamore had paid sh 1350 for the item?

- A. 76.5%                         B. 24.5%  
 C. 8.5%                         D. 23.5%

19. What's the value of

$$\frac{7.5 - 1.3 \text{ of } 0.5 + 3.5}{2.5 \times 0.2}$$

- A. 6.2                                B. 2  
 C. 10                                D. 20

20. A businessman bought 8 bags of sugar each weighting 100 kg. He then packed a quarter of the sugar in packets of 250 grams each and the rest in 500 grams each. How many packets altogether did he have?

- A. 250                                B. 2000  
 C. 1600                             D. 3200

21. The following are properties of a certain quadrilateral

- (i) diagonals bisect interior angles
- (ii) diagonals are not equal
- (iii) all sides are equal
- (iv) opposite angles are equal

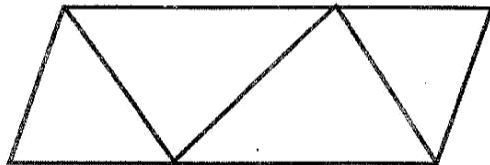
Which quadrilateral has the above properties?

- A. Square                         B. Parallelogram  
 C. Rhombus                      D. Rectangle

22. A mother shared some money to four children as follows, Kinyua 0.24, Mwaura 0.12, Mburu 0.25 of the remaining amount. If the rest sh 1920 was given to Otiende, how much money did Kinyua get than Hussein?

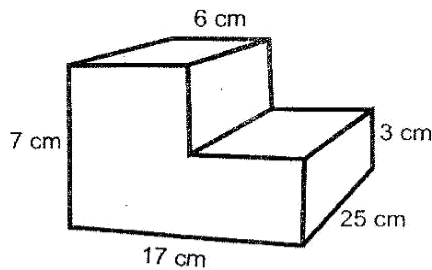
- A. sh 320    B. sh 4000  
C. sh 640    D. sh 960

23. What is the product of edges and vertices of the solid formed from the net below?



- A. 10    B. 16  
C. 96     D. 24

24. The solid below represents a solid block of metal



Calculate the volume of the metal block

- A.  $1875 \text{ cm}^3$     B.  $2975 \text{ cm}^3$   
C.  $1350 \text{ cm}^3$     D.  $3975 \text{ cm}^3$

25. What's the value of  $x^2(4c - 2d)$

When  $x = c^2$   
 $d = x - 1$   
 $c = 2$

- A. 8     B. 16  
C. 224    D. 32

26. Construct a circle that passes through points A, B, and C of a triangle ABC in which  $AB = 3.6 \text{ cm}$ ,  $BC = 4.8 \text{ cm}$  and  $CA = 6 \text{ cm}$ . What is the radius of the circle?

- A. 10 cm     B. 6 cm  
C. 3 cm     D. 5 cm

27. Emma stored milk in three containers of 24 litres, 36 litres and 30 litres. The milk in each container was then repacked into smaller containers. The amount of milk in each smaller container was the same. What was the capacity of the largest container used to repack the milk?

- A. 72 litres    B. 360 litres  
C. 36 litres     D. 6 litres

28. Twenty one people take 42 days to complete a piece of work. If seven people did not turn up for the work, how many more days will the remaining people take to complete the work?

- A. 63    B. 21  
C. 126    D. 28

29. Jane reported for duty on 26<sup>th</sup> April 2008, after 80 days leave. When had she started her leave?

- A. 6<sup>th</sup> February                                         B. 5<sup>th</sup> February  
C. 24<sup>th</sup> February                                      D. 5<sup>th</sup> March

30. The area of a square floor is  $169 \text{ m}^2$ . Nine equal square carpets were placed covering the whole floor. Find the one side of each carpet?

- A. 13 m     B. 39 m  
C.  $4 \frac{1}{3} \text{ m}$      D.  $1 \frac{4}{9} \text{ m}$

31. A sales man is paid a monthly salary of sh. 20,000 and 5 % commission on all sales made above sh. 80,000. In one month he earned a total of sh. 32000. Find his total sales that month

- A. sh 240 000                                         B. sh 320 000  
C. sh 160 000                                         D. sh 84 000

32. Gitari bought a television set on hire purchase by paying a deposit of sh 3800 and 10 equal monthly instalments of sh 1520 each. What percentage of the total cost was the deposit?

- A. 10%     B. 80%  
C. 19%     D. 20%

33. The table below shows how Ameny planned his land

Land use	Food crop	Home-stead	Grazing	Wheat	Maize
Size	$\frac{3}{4}$ ha	$\frac{1}{3}$ ha	$1 \frac{1}{4}$ ha	$2 \frac{1}{3}$ ha	$1 \frac{1}{3}$ ha

If this information is represented in a pie chart. What angle represents Homestead and Grazing?

- A.  $95^\circ$                       B.  $75^\circ$   
C.  $20^\circ$                       D.  $80^\circ$

34. The temperature of milk  $5^\circ\text{C}$ . It was later heated at a rate of  $8^\circ\text{C}$  per minute for the first four minutes and cooked at the rate of  $4^\circ\text{C}$  per minute for the rest of the time. What was its temperature after seven minutes?

- A.  $-25^\circ\text{C}$                       B.  $37^\circ\text{C}$   
C.  $17^\circ\text{C}$                       D.  $25^\circ\text{C}$

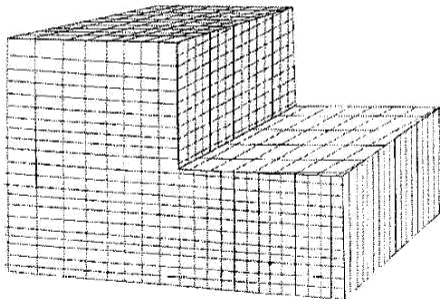
35. Kaguri deposited sh 4000 for 2 years in a bank paid interest at rate of 15% per annum. What interest did he get at the end of the two years?

- A. 5200                      B. 1290  
C. 5290                      D. 1200

36. Construct a rhombus XYZW such that XY is 6 cm. Angle YZW is  $50^\circ$ . Drop a perpendicular line from point W to meet XY at M measure MY

- A. 3 cm                      B. 2.2 cm  
C. 3.8 cm                      D. 4.6 cm

37. How many cubes were painted three faces only if the stack below was dipped in a container with paint?



- A. 10                      B. 8  
C. 12                      D. 14

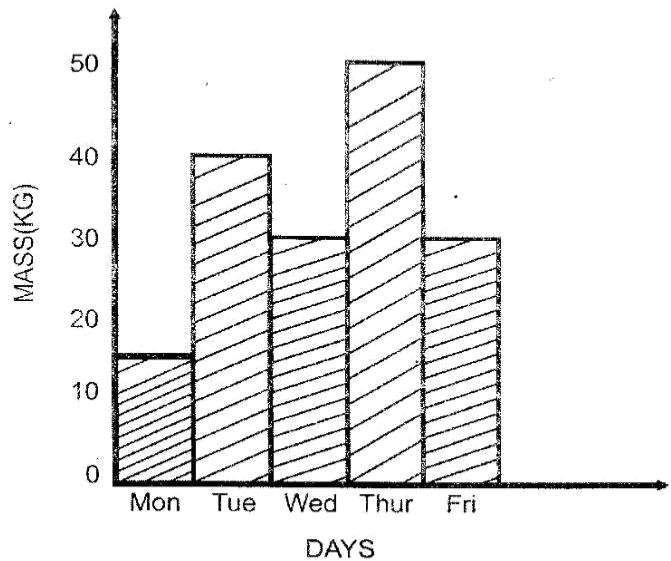
38. Simplify the inequality  $\frac{3}{4}(12 + 4y) > 6(y + \frac{1}{2})$

- A.  $y > 2$                       B.  $12 > 9y$   
C.  $y < 2$                       D.  $y = 2$

39. On Monday  $\frac{1}{3}$  of the pupils in a school were absent and on Tuesday  $\frac{1}{4}$  of the pupils were absent. If 12 more pupils were absent on Monday than on Tuesday. What is the total number pupils in the school?

- A. 240                      B. 144  
C. 108                      D. 72

40. The bar graph below shows the number of kilograms of sugar consumed by a school in five days.



In which two consecutive days was the total consumption highest?

- A. Mon and Tue                      B. Tue and Wed  
C. Wed and Thur                      D. Thur and Fri

41. Mwangi left town N at 9.30 am for town S travelling at a speed of 70 km/hr. Rotich left town S at 10.00 am for town N travelling at a speed of 90 km/hr. The two met at a place 140 km away from N. What was the distance between town N and S

- A. 135 km                      B. 275 km  
C. 235 km                      D. 175 km

42. Otiende had the following amount of money in his saving box. He changed all the money into five shillings coins. How many coins did he get?

Value of coin/ note	1000	500	200	100	50	20	10	5	1
Number of coins/ notes	1	1	5	6	3	30	20	15	25

- A. 4150  
 B. 830  
 C. 4125  
 D. 825

43. A clock gains 5 seconds every hour. If it was set right on Wednesday at 11.52 pm, what time will it show the following Wednesday at 11.52 pm?

- A. 11.38pm  
 B. 12.06 pm  
 C. 12.06 am  
 D. 11.38 am

44. A cylindrical tank of diameter 28 cm contains 18.48 litres of water. Find the height of water in the tank?

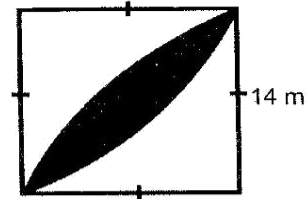
- A. 30 cm  
 B. 7.5 cm  
 C. 616 cm  
 D. 210 cm

45. What is the value of x in these equation?

$$\frac{2x - 3}{3} + 2x = 6$$

- A.  $1 \frac{1}{8}$   
 B.  $5 \frac{7}{8}$   
 C.  $1 \frac{7}{8}$   
 D.  $2 \frac{5}{8}$

46. Find the shaded area?



- A.  $56 \text{ m}^2$   
 B.  $196 \text{ m}^2$   
 C.  $112 \text{ m}^2$   
 D.  $154 \text{ m}^2$

47. What is the sum of the first 26 consecutive odd numbers?

- A. 676  
 B. 702  
 C. 625  
 D. 696

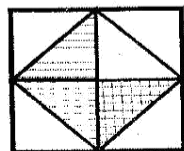
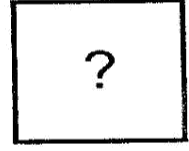
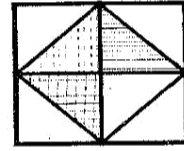
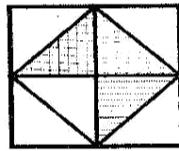
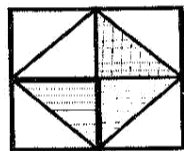
48. Regina sold an item for sh. 6 000 making 10% loss, for how much would she have sold it to make 20% profit?

- A. sh 6545.45  
 B. sh 5400  
 C. sh 7200  
 D. sh 8000

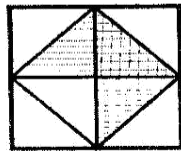
49. Emma has K oranges which is three times as many oranges as Lucy has. David has 10 more oranges than Lucy. If the three pupils have a total of 72 oranges, form an equation to represent the information?

- A.  $5k - 30 = 216$   
 B.  $7k + 10 = 72$   
 C.  $5k + 30 = 216$   
 D.  $7k - 10 = 72$

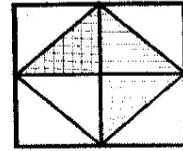
50. Which one of the following shape below should be drawn in the blank box to continue the pattern?



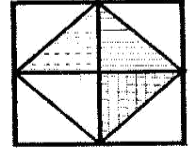
A



B



C



D