Monitoring Learner Achievement at Primary School Level in Kenya

Class 7

LEARNERS NAME: _____

LEARNER'S ADMISSION NO. _____

INSTRUCTIONS TO LEARNERS

1.   This paper consists of **50** Questions.
2.   Answer all the questions by circling / ticking the correct answer.
3.   You have 2 **hours 30 minutes** to answer **all** the questions in this paper.

SCORING GRID (50 marks)

QUESTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Mark (s)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Score															

QUESTION	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Mark (s)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Score															

QUESTION	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Mark (s)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Score															

QUESTION	46	47	48	49	50	TOTAL SCORE
Mark (s)	1	1	1	1	1	**50**
Score						

Answer all the questions in this section by circling the correct answer

1. What is 11106811 in words?
   A. Eleven million sixteen thousand eight hundred and eleven
   B. Eleven million one hundred and sixty eight thousand and eleven
   C. Eleven million one hundred and six thousand eight hundred and eleven
   D. Eleven million one hundred and six thousand and eighty one

2. What is seven million seventy thousand and seventy in symbols?
   A. 7070070
   B. 7007070
   C. 7070007
   D. 7700070

3. What is the place value of digit 9 in the number 309637?
   A. Hundreds
   B. Thousands
   C. Ten thousands
   D. Nine thousand

4. What is the total value of digit 6 in the product of 0.42 and 8?
   A. 6
   B. 3.36
   C. 0.6
   D. 0.06

5. What is $\frac{5}{7}, \frac{7}{8}, \frac{1}{2}, \frac{3}{4}$ arranged in descending order?

   A. $\frac{1}{2}, \frac{5}{7}, \frac{3}{4}, \frac{7}{8}$

   B. $\frac{7}{8}, \frac{3}{4}, \frac{5}{7}, \frac{1}{2}$

   C. $\frac{7}{8}, \frac{5}{7}, \frac{3}{4}, \frac{1}{2}$

   D. $\frac{1}{2}, \frac{3}{4}, \frac{5}{7}, \frac{7}{8}$

6. What is the value of $\dfrac{10 + 2(11 - 6)}{5}$?

 A. 4
 B. 5
 C. 12
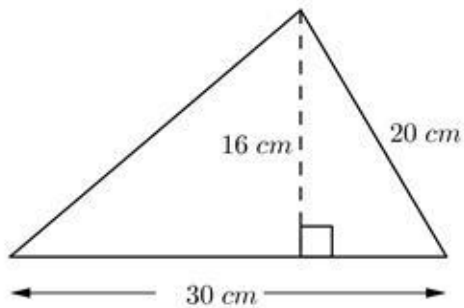 D. 20

7. What is the next number in the pattern 3, 7, 16, 32, 57, _____?
 A. 63
 B. 83
 C. 93
 D. 126

8. What is the value of
18.934 + 0.173 − 4.317 ?

 A. 23.424
 B. 14.810
 C. 14.790
 D. 13.690

9. The figure below is a triangle.


What is the area of the triangle in cm^2 ?
 A. 160
 B. 240
 C. 300
 D. 480

10. A school has a total population of 610 pupils. There are 366 girls in the school. What is the percentage of boys in the school?

 A. $66\dfrac{2}{3}$
 B. 60
 C. 40
 D. 20

11. What is 789.4586 correct to two decimal places?
   A. 789.5
   B. 789.46
   C. 789.459
   D. 789.45

12. Three bells ring at intervals of 30 minutes, 45 minutes and 60 minutes. If they ring together at 8.00 a.m, what time will they ring together next?
   A. 11.00 a.m
   B. 11.00 p.m
   C. 8.15 a.m
   D. 8.03 a.m

13. What is the square root of 64?
   A. 8
   B. 32
   C. 128
   D. 4096

14. The figure below shows a rectangular picture frame of length 24 cm and width 18 cm. A square picture of length 16 cm is put in the picture frame.

24 cm

18 cm

16 cm
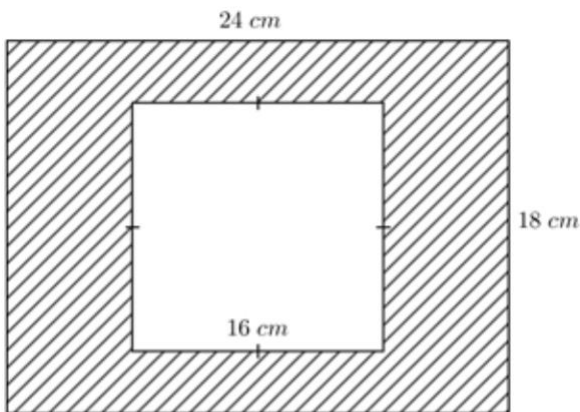
What is the area of the shaded part?
   A. 176 cm$_2$
   B. 256 cm$_2$
   C. 432 cm$_2$
   D. 688 cm$_2$

15. Work out

	t	kg	g
	3	89	647
+	14	76	449

A.   18 t   66 kg   96 g

B.   17 t   166 kg   96 g

C.   17t   166 kg   86 g

D. 17 t   165 kg   1096 g

16.   The distance from Sam's home to the market is 2 kilometres. Sam walks to the market and back every day. What distance in kilometres does he cover in 2 weeks?
   A.   56
   B.   28
   C.   14
   D.   8

17.   A child was born on 14th February 2020. How old was the child on 28th April 2020?

   A.   73 days
   B.   74 days
   C.   75 days
   D.   76 days

18.   Which one of the following statements is correct?

   A. $3(7 + 8) < 2(15 + 2)$

   B. $\frac{1}{2}(18) = \frac{1}{5}(100)$

   C. $\frac{1}{4}$ of 32 $> \frac{1}{4}$ of 44

   D. $\frac{1}{2}(4×3) > \frac{1}{3}(72 ÷ 6)$

19. A tailor had a roll of cloth measuring 77.5 metres. He cut it into smaller pieces each measuring 1.25 metres. How many pieces did he obtain from the roll of cloth?

A.   6200
B.   620
C.   62
D.   6.2

20. Grace bought 36 bottles of sanitizer. Each bottle holds 500 ml. How many litres of sanitizer did she buy?

A.   0.18
B.   18
C.   180
D.   1800

21. Abdi had 2-one thousand shilling notes. If he changed them into two hundred shilling notes, how many notes did he get?

A.   2000
B.   100
C.   10
D.   5

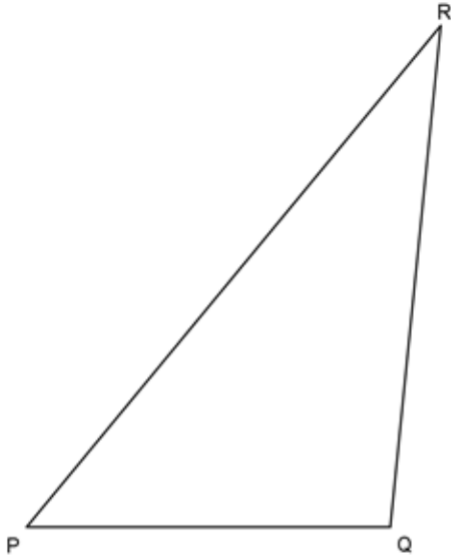**22.** In the figure below, line SR is parallel to line PQ. Line TU is a transversal.
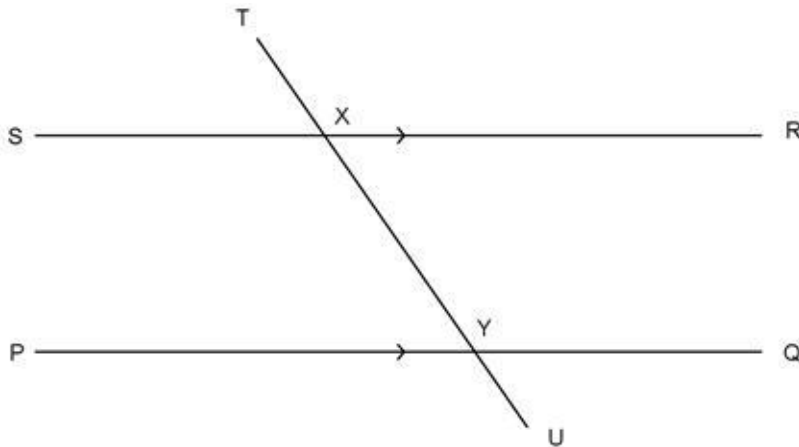
Which one of the following statements is correct?

A. angle **SXT** + angle **PYT** = angle **SXU**

B. angle **SXT** + angle **QYU** = angle **PYU**

C. angle **RXU** + angle **PYT** = 180°

D. angle **RXU** + angle **TYQ** = 180°

Class 7
Mathematics   **7**   **Turn over**

23. The figure below shows a triangle PQR drawn to scale.

What is the size of angle **PRQ**?

A. 146°

B. 96°

C. 50°

D. 34°

24. A solid is in the shape of a cuboid. What is the sum of the number of its faces and edges?

A. 20

B. 18

C. 17

D. 13

25. A map has a scale of 1 cm represents 50 km. The actual distance between town X and town Y is 900 km. What is the length of the distance on the map?

A. 1.8 cm

B. 18 cm

C. 180 cm

D. 1800 cm

26. Which one of the following properties is true for all right angled triangles?

A. Two angles are equal

B. Two sides are equal
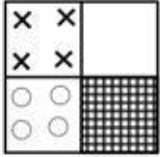
C. All sides are equal

D. One of the angles is 90°
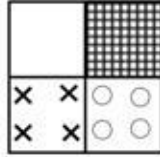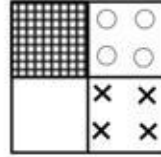
27. The figures below show a pattern.
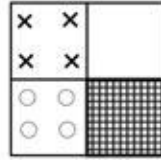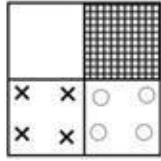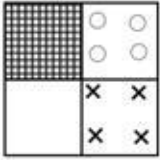
What is the next shape in the pattern?
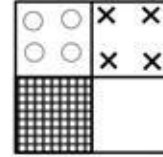
A   B   C   D

28. What is the simplified form of

$$2\left(a+18\right)+\frac{1}{2}\left(6a-8\right)?$$
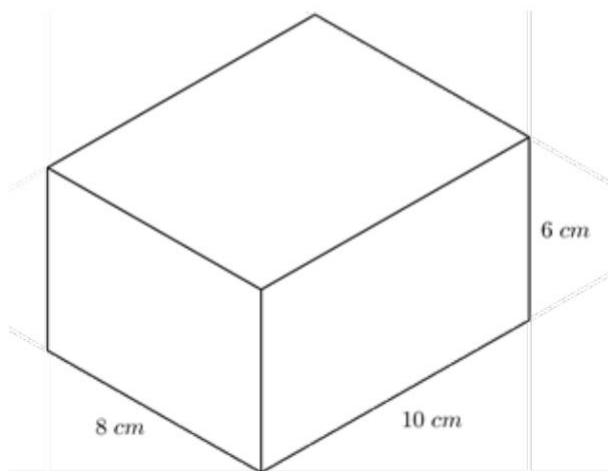
A. $5a + 32$

B. $5a + 40$

C. $5a + 10$

D. $7\frac{1}{2}a + 25$

29. The figure below is a cuboid.

6 cm

8 cm   10 cm

What is the volume of the cuboid?
A.   72 cm³
B.   240 cm³
C.   376 cm³

Class 7 D.   480 cm³

Mathematics   9   **Turn over**

30. The following are properties of some quadrilaterals;

(i)   *All sides are equal*

(ii)   *All angles are equal*

(iii)   *Diagonals bisect at 90°*

(iv)   *Opposite sides are equal and parallel*

Which of these properties are correct about a rectangle?

A.   *(i)* and *(iv)*

B.   *(ii)* and *(iii)*

C.   *(i)* and *(iii)*

D.   *(ii)* and *(iv)*

Working Space

Answer all questions in this section by writing the answers in the spaces provided.

31. A hotel bought a bag of sugar and used $\frac{1}{3}$ of it to prepare tea. If $\frac{1}{4}$ of the sugar was used to prepare porridge, what fraction of the sugar remained?

32. What is the value of $3\frac{3}{5} + 3\frac{3}{4} - 1\frac{2}{3}$?

33. The total number of pupils in Standard five, six and seven in a school is 450. The number of pupils in Standard seven is 150 while those in Standard five is 200. How many more pupils are there in Standard seven than in Standard six?

34. Joel harvested 3006 bags of maize in the year 2015 and **Working** 5369bags **Space** of maize in the year 2016. In the year 2017, he harvested 200 bags of maize less than in the year 2016. How many bags of maize did he harvest in the 3 years?

35. Ann's farm is circular in shape with a diameter of 21 metres. She fenced it using 4 strands of wire. What is the total length of wire that was used?

Take $\pi = \frac{22}{7}$

36. A motorist covered a distance of 480 km in 6 hours. What was the speed of the motorist in km/h?

37. A watch loses 1 minute every 12 hours. It was set right on Monday **Working** at 0900 **Space** h. What time will it show the following day at 0900 h? Give the answer in a.m/p.m clock system.

38. Using a ruler and a pair of compasses only, construct a perpendicular bisector to meet line KL shown below at point N.

K ⊢———————————————————————————⊣ L

What is the measure of line KN in cm?

39. The figure shown below is made up of two triangles UVX**WorkiandgSpace**VWX. Lines XW and UV are parallel while UVX is an isosceles triangle. Angle **VUX** = 34° and angle **VWX** = 20 °.
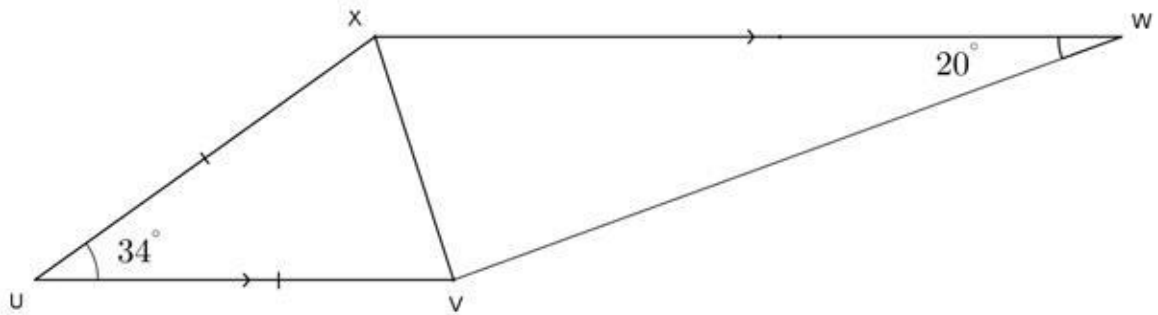
What is the size of angle **XVW**?

40. The line shown below is part of an incomplete triangle XYZ. Line XZ = 8 cm and angle **YXZ** = 35°. Using a ruler and a protractor only, complete the triangle XYZ.

What is the measure of line YZ in cm?

41. What is the value of *m* in $6m - 11 = m + 9$?

42. Mary bought the following items from a shop:

> *3 kg of sugar @ sh 120 per kg 20*
> *kg of rice @ sh 100 per kg*
> *5 litres of oil for sh 400*
> *4 loaves of bread @ sh 50*

How much money did she pay for all the items?

43. Kambua bought 30 eggs for sh 280. She used sh 20 for transport. She later sold each egg at sh 12. How much profit did she make?

44. A pupil bought the following items from a
shop; *5 exercise books @ sh 80*
3 pens @ sh 15
A geometrical set for sh 250
If the pupil gave the shopkeeper a one thousand shilling note, how much balance was the pupil given?

45. The table below shows postal charges in shillings for sending letters to various regions in the world.

Mass	East Africa (sh)	Rest of Africa (sh)	Europe and the Middle East (sh)
Up to 20 g	85	95	110
Over 20 g up to 50 g	150	170	265
Over 50 g up to 250 g	265	325	475
Over 250 g up to 350 g	615	705	1160
Over 350 g up to 500 g	855	1010	1485
Over 500 g up to 1 kg	1115	1295	1915
Over 1 kg up to 2 kg	1590	1855	2880

David sent letters with the masses shown below to three different countries;

(i)   1500 g letter to Germany (in Europe)
(ii)   300 g letter to South Africa (in Africa)
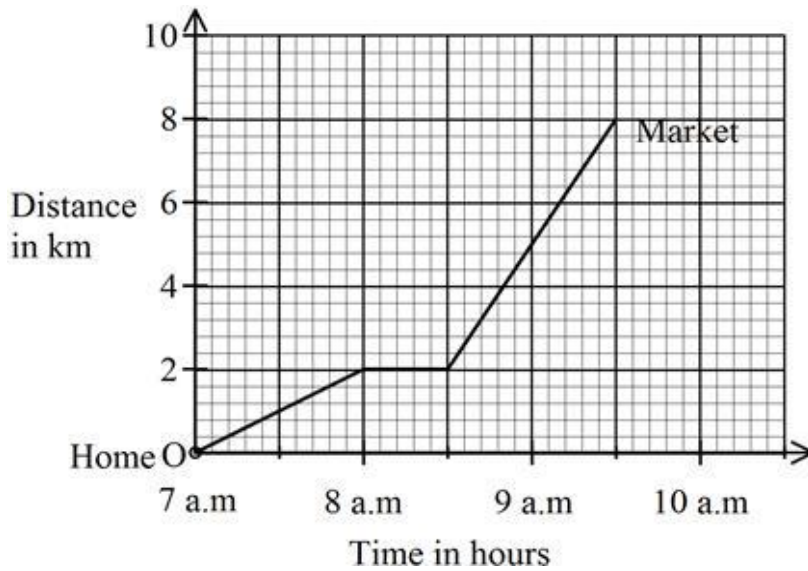*(iii)   500 g letter to Uganda (in East Africa)*

How much money did he pay for the postage?

46. A farm has the following
animals; *95 camels*
30 goats
85 cows
90 sheep
Draw a pie chart representing each type of the animals in the farm.

47. The graph below shows Wandi's journey from home to the market.

What is the average speed for her journey from home to the market in km/h?

48. The table below shows the arrival and departure times for a bus travelling from Nairobi to Murang'a.

Station	Arrival time	Departure time
Nairobi		0800 h
Juja	0845 h	0850 h
Thika	0910 h	0915 h
Kabati	0945 h	1000 h
Kenol	1010 h	1015 h
Murang'a	1045 h	

How long did the bus take to travel from Thika to Murang'a?

49. The table below shows milk production from a farm in six days. The milk produced on Friday is not indicated.

Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Amount of milk in litres	16	10	15	17		12

The average milk production for the six days was 16 litres. How much more milk was produced on Friday than on Thursday?

50. Patel scored the following marks in different subjects in an examination;

Mathematics	*90 %*
English	*80 %*
Kiswahili	*60 %*
Science	*65 %*
Social studies and Religious education	*55 %*

What was the mean mark?

THIS IS THE LAST PRINTED PAGE.