Class 7 mid-term 1 August 2021 Mathematics

1. What is **9 908 098** written in words?
   A. Nine million, ninety eight thousand and ninety eight.
   B. Nine million, nine hundred and eight thousand and ninety eight.
   C. Ninety nine million, eight thousand and ninety eight.
   D. Nine million, nine hundred and eight thousand, nine hundred and eight.

2. What is the place value of digit **0** in the sum of **698 421** and **349 768**?
   A. Thousands
   B. Tens of thousands
   C. Hundreds of thousands.
   D. Millions

3. Which of the following numbers is divisible by **11**?
   A. 276 353   B. 658 744
   C. 569 034   D. 459 871

4. What is the total value of digit **5** in the product of **488** and **29**?
   A. 50 000   B. 5 000
   C. 500   D. 50

5. A square seedbed has an area of 576 square metres. What is the length of one side?
   A. 26 m   B. 24 m
   C. 18 m   D. 19 m

6. What is the sum of the first ten odd numbers?
   A. 100   B. 121
   C. 169   D. 196

7. There are **168** primary schools in a certain sub-county. Each school was given **3 560** text books for Grade 5 new curriculum. How many text books were given out altogether?
   A. 598 800   B. 598 008
   C. 598 080   D. 590 880

8. What is the next number in the number pattern below?
   234, 345, 456, 567, _____
   A. 657   B. 678
   C. 789   D. 687

9. Fatuma had 36 metres of cloth material. She decided to cut small pieces of cloth, each $\frac{2}{3}$ of a metre for table mats. How many pieces did she obtain?
   A. 24   B. 42
   C. 45   D. 54

10. A square table mat measures $2\frac{1}{4}$ metres in length. What is the area of the mat in square metres?
    A. $5\frac{1}{16}$ B. $4\frac{1}{16}$
    C. $1\frac{1}{8}$ D. $1\frac{1}{2}$

11. Round off **235 681** to the nearest thousands.
    A. 235 700
    B. 240 000
    C. 236 000
    D. 235 000

12. Which of the following numbers is divisible by **8**?
    A. 15 348   B. 14 064
    C. 19 884   D. 17 894

13. What is the largest 6-digit number that can be formed by digits **5, 3, 0, 9, 4 and 6**?
    A. 956 430
    B. 304 956
    C. 659 430
    D. 965 430

14. In 2018, Cherotich harvested 5 684 bags of maize. This was 208 more than those harvested in 2017. How many bags of maize were harvested in both years?
    A. 16 110   B. 5 476
    C. 11 160   D. 11 576

15. What is $(2\frac{1}{4})^2$?

   A. $5\frac{1}{16}$ B. $1\frac{1}{4}$

   C. $1\frac{1}{2}$ D. $3\frac{3}{4}$

16. Simplify:
   $5(3x + 2y) + 3(4x - 2y)$
   A. $27x - 16y$
   B. $27x - 4y$
   C. $27x + 16y$
   D. $27x + 4y$

17. What is the Greatest Common Divisor of 180 and 240?
   A. 80   B. 60
   C. 120   D. 720

18. What is the value of a in the equation $2(3a + 2) = 28$?
   A. 3   B. 6
   C. 4   D. 8

19. Omwenga lives $2\frac{1}{4}$ km away from his place of work. If he goes in the morning and comes back in the evening, how many kilometres does he cover in 12 days?
   A. 54 km   B. 108 km
   C. 27 km   D. $13\frac{1}{2}$ km

20. What is the smallest number that can be divided by 24, 32 and 40 without a remainder?
   A. 16   B. 8
   C. 480   D. 240

21. Round off 58.34823 correct to three decimal places.
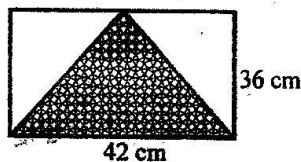   A. 58.3482
   B. 58.348
   C. 58.35
   D. 58.349

22. Add:
   538.2 + 8.1256 + 13.48
   A. 559.8056
   B. 548.1298
   C. 648.1286
   D. 595.5806

23. Express $\frac{5}{16}$ as a percentage.
   A. 312.5%
   B. 0.3125%
   C. 3.125%
   D. 31.25%

24. In a class, 70% of the pupils are boys. If 24 pupils are girls, how many pupils are there in the class?
   A. 96   B. 80
   C. 120   D. 84

25. What is the circumference of a circle whose radius is 49 cm?
   A. 154 cm
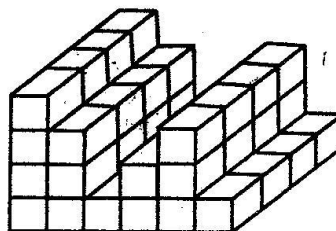   B. 616 cm
   C. 308 cm
   D. 88 cm

26. Find the area of the shaded region.

   A. 1 512 cm²   B. 864 cm²
   C. 961 cm²   D. 756 cm²

27. A baby woke up at 7.30 am after sleeping for 8 hours 45 minutes. At what time did the baby sleep?
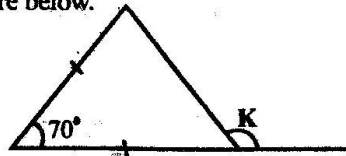   A. 10.45 am
   B. 10.45 pm
   C. 9.15 am
   D. 9.15 pm

28. The diagram below shows a stack of cubes.

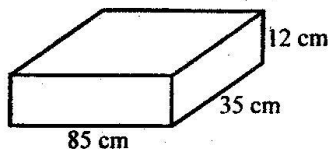   How many cubes are they?
   A. 65   B. 68
   C. 64   D. 56

29. What is the sum of the supplement of 70°
and the complement of 50°?
A. 150° B. 120°
C. 270° D. 240°

30. Calculate the size of the angle marked **K** in
the figure below.

A. 110° B. 140°
C. 125° D. 115°

31. What is the value of 8 *l* 3 *dl* 24 *ml* x 8?
A. 64 *l* 24 *dl* 192 *ml*
B. 68 *l* 3 *dl* 2 *ml*
C. 64 *l* 4 *dl* 92 *ml*
D. 66 *l* 5 *dl* 92 *ml*

32. Musyoka bought a wheelbarrow for
sh. 1 200. He later sold the wheelbarrow for
sh. 1 380. Calculate the percentage profit.
A. 15% B. 8%
C. 12% D. 13²/₁₃%

33. The mass of Kamwaro's pickup is 10³/₄
tonnes. What is the mass in kilograms?
A. 17 050 kg B. 17 500 kg
C. 10 750 kg D. 1 750 kg

34. The diagram below is a rectangular block.

12 cm
35 cm
85 cm

Find the volume of the block.
A. 37 500 cm³ B. 35 700 cm³
C. 30 570 cm³ D. 30 750 cm³

35. Karimi left Narok to Naivasha, a distance
of 150 km. He left Narok at 10.30 am and
reached Naivasha at 12.00 pm. What was
his speed in kilometres per hour?
A. 75 km/hr B. 120 km/hr
C. 105 km/hr D. 100 km/hr

36. A plot of land is in the form of a rectangle.
The rectangle is 220 m long ad 150 m wide.
What is the area of the land in hectares?
A. 3.3 ha B. 33 ha
C. 0.33 ha D. 330 ha

37. Juma bought the following items from a
shop:
3 kg of sugar @ sh. 90.00
2-2 kg packets of maize flour @ sh. 105
4 packets of Indomie @ sh. 95
2 packets of biscuits for sh. 80
If he paid for the items using a one thousand
shilling note, what balance did he get?
A. Sh. 120 B. Sh. 380
C. Sh. 60 D. Sh. 250

38. Salome bought a shirt for sh. 180. She later
sold the shirt at sh. 162. Calculate the
percentage loss she incurred.
A. 12% B. 10%
C. 11¹/₉% D. 33¹/₃%

39. A path 12.6 m long was drawn to the scale of
1 cm represents 3 m. What was the drawing
length?
A. 0.42 cm
B. 420 cm
C. 42 cm
D. 4.2 cm

40. The table below shows postal charges of
sending letters in the post office.

Mass of the letters	Sh.	Cts
Up to 50 g	36	00
Over 50 g to 100 g	84	00
Over 100 g to 250 g	112	00
Over 250 g to 500 g	152	00
Over 500 g to 1 kg	197	00
Over 1 kg to 2 kg	229	00
Over 2 kg to 5 kg	268	00

Otieno posted two letters each weighing
300 g to his son in Kisumu and another one
weighing 800 g to his brother in Nairobi.
How much did he pay for the postage?
A. Sh. 381 B. Sh. 533
C. Sh. 501 D. Sh. 648

41. The area of a rectangular plot is 46.75 Ares. The length of the plot is 85 metres. What is the width of the plot?
   A. 55 m   B. 35 m
   C. 65 m   D. 45 m

42. Mburu scored the following marks during his end of term exams: Mathematics 94%, English 78%, Kiswahili 82%, Science 88% and Social Studies and Religion 66%. Calculate his subject mean for his end of term exams.
   A. 78.5%   B. 82.4%
   C. 81.6%   D. 75.8%

43. Multiply 12 hours 45 minutes by 4.
   A. 48 hrs 180 min   B. 51 hrs
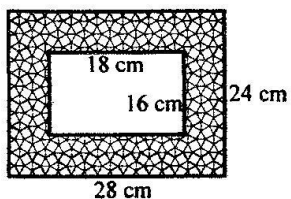   C. 49 hrs 80 min   D. 48 hrs

44. A watch loses ten seconds in two hours. How many minutes does it lose in one week?
   A. 2 minutes   B. 56 minutes
   C. 28 minutes   D. 14 minutes

45. A box loaded with 32 books weighs 9.8 kg. If an empty box weighs 1.8 kg, what is the mass of each book?
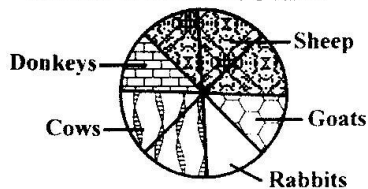   A. 250 g   B. 350 g
   C. 450 g   D. 550 g

46. What is the area of the shaded region in the figure below?
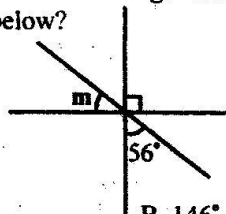

18 cm
16 cm
24 cm
28 cm

   A. 672 cm²   B. 288 cm²
   C. 384 cm²   D. 96 cm²

47. The circle graph below shows the number of animals in Makonde's farm.

Donkeys
Sheep
Cows
Goats
Rabbits

If there were 72 sheep in the farm. how many animals were there in the farm altogether?
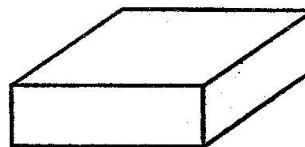   A. 144   B. 192
   C. 308   D. 448

48. What is the size of angle marked m in the figure below?

m
56°

   A. 56°   B. 146°
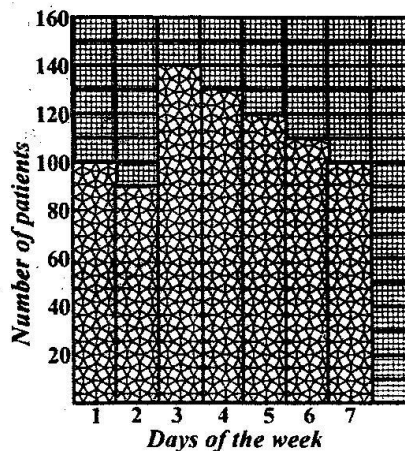   C. 88°   D. 34°

49. The diagram below is a closed cuboid.

   What is the product of the faces and the edges of the cuboid above?
   A. 72   B. 96
   C. 48   D. 60

50. The bar graph below represents the number of patients who recovered from COVID 19.

Days of the week

How many patients recovered in that week altogether?
   A. 950   B. 750
   C. 810   D. 790