

CLASS 7 MID TERM 2 2020

MATHEMATICS

HOW TO USE THE ANSWERSHEET

Use only an ordinary pencil

Make sure that you have written on the Answer Sheet

TIME: 2 HOURS

(i) YOURNAME

(ii) NAME OF YOUR SCHOOL

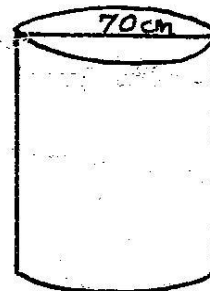
- Which of the following is one million eight hundred and ten thousand and thirty?
 - 108100030
 - 1810030
 - 10801030
 - 1810003
- Round off 256 and 725 to the nearest hundred and multiply the result
 - 210000
 - 14000
 - 175000
 - 185600
- Mr. Jared's garden is in the form of a square whose perimeter is 1000 metres Find the area of the garden in hectares
 - 62.5 ha
 - 625 hac
 - 62500 ha
 - 6.25 ha
- Simplify: $3\frac{1}{4} - 1\frac{1}{3} + 1\frac{1}{4}$
 - $4\frac{1}{2}$
 - $4\frac{1}{4}$
 - $4\frac{3}{4}$
 - $4\frac{1}{6}$
- To fence one side of a plot 90 metres long, John puts posts placed 2.5 metres apart. How many posts did he use?
 - 36
 - 225
 - 37
 - 38
- What is the total value of digit 9 is the product of 3.47×8.24 ?
 - Thousandths
 - Hundredths
 - Tenths
 - Hundreds

- In a meeting one hundred and eight men attended. The number of women was thirty more than men. how many people extended the meeting the meeting?
 - 390
 - 520
 - 460
 - 270

8. Solve for x in: $\frac{3}{4}x + 2(x - 3) = a$

- $1\frac{5}{13}$
- $1\frac{12}{13}$
- $1\frac{7}{11}$
- $1\frac{11}{13}$

- The diagram below shows a musical drum with a diameter of 70 cm. What is the total area of the top and bottom. (Take $\pi = \frac{22}{7}$)



- 7 cm^2
- 77 cm^2
- 770 cm^2
- 7700 cm^2

- What is the value of the expression

$$\frac{3ab + 2bcd}{ab - cd}$$

$$ab - cd$$

$$\text{when } a = 4, b = 3, c = 5, d = 1$$

- 1
- $9\frac{2}{7}$
- $9\frac{3}{7}$
- 2

- After being allowed a discount of 30%, Owaka

bought a bicycle at Sh. 5600. What was the marked price?

- A. Sh. 8000
- B. Sh. 168
- C. Sh. 3920
- D. Sh. 7800

12. Nelly wanted to climb a tree using a ladder. He placed the ladder 9 m from the base of the wall 15m. How tall was the tree?

- A. 12 m
- B. 25 m
- C. 24 m
- D. 16 m

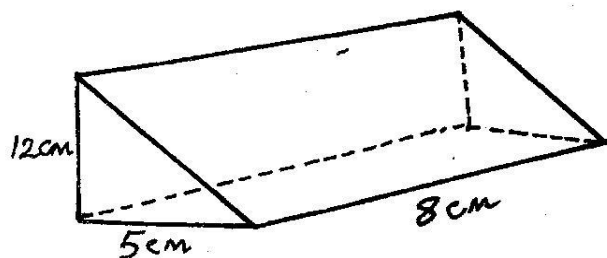
13. A grocer bought 16 kg of tomatoes at Sh. 50 per kilogram. He then sold them making a loss of 10%. What was the selling price?

- A. Sh. 800
- B. Sh. 720
- C. Sh. 80
- D. Sh. 880

14. What is the value of: $\frac{0.05 \times 0.36}{0.002}$

- A. 90
- B. 0.09
- C. 0.9
- D. 9

15. What is the volume of the figure below?



- A. 480 cm²
- B. 300 cm²
- C. 240 cm³
- D. 340 cm³

16. Simply: $3(y - 3) - 2(y - 2)$

- A. 5y - 13
- B. 5y + 13
- C. y - 5
- D. y + 5

17. A section of a road measuring 2500 m in length is represented by a length of 5 cm in a map. What is the scale used?

- A. 1 : 50
- B. 1 : 50000
- C. 1 : 500
- D. 1 : 5000

18. To hire purchase of a radio was 120% of the marked price which was Sh. 7800. Prisca paid a deposit and a monthly instalment of Sh. 1472 each. How much deposit did she pay?

- A. Sh. 7360
- B. Sh. 9360
- C. Sh. 2000
- D. Sh. 3600

19. A plane left Wilson Airport on Monday at 2300 hrs. If it took 9 hrs 35 min to reach Cairo, at what time and the day did it land at Cairo?

- A. Tuesday, 3305 hrs
- B. Wednesday 0935 hrs
- C. Tuesday 0305 hrs
- D. Tuesday 0905 hrs.

20. The table below shows the number of AIDS patients visiting a clinic per day for a whole week.

MON	TUE	WED	THU	FRI	SAT	SUN
90	109	143	159		88	166

The mean number of the patients visiting the clinic per day was 139. How many patients visited the clinic on Friday?

- A. 118
- B. 126
- C. 139
- D. 108

21. Express 16.25% as a fraction?

- A. $\frac{13}{20}$
- B. $\frac{13}{40}$
- C. $\frac{13}{80}$
- D. $\frac{16}{25}$

22. A sales girl was given a 5% commission of the value of sales by a businessman after selling goods worth

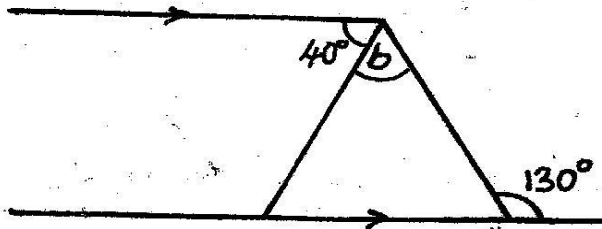
Sh. 50,000. How much money did the businessman get?

- A. Sh. 44800 B. Sh. 47500
C. Sh. 48400 D. Sh. 52500

23. A car's wheel has a radius of 56 cm. How many revolutions should the wheel make to cover a distance of 17.6 km?

- A. 10000 B. 500
C. 5000 D. 1000

24. Calculate the size of the angle marked b



- A. 90° B. 40°
C. 50° D. 140°

25. Decrease 120 by 40%

- A. 168 B. 64
C. 72 D. 48

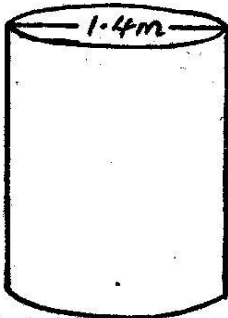
26. How many 250 grammes packets of tea leaves can be obtained from $2\frac{1}{4}$ tonnes of tea?

- A. 900 B. 90,000
C. 900000 D. 9000

27. Three bells ring at interval of 15 minutes, 20 minutes and 30 minutes respectively. If they rung together at 11.35 a.m., at what time will they ring together again?

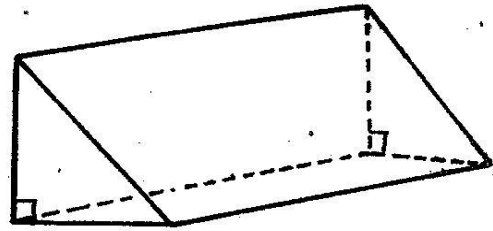
- A. 12.35 p.m B. 12.35 a.m
C. 12.05 p.m D. 12.05 a.m

28. What is the capacity of the tank below in litres when it is half full?



- A. 2310 L
B. 4620 L
C. 3435 L
D. 1155 L

29. What is the sum of the edges and vertices in the figure below?



- A. 54 B. 15
C. 14 D. 11

30. Construct triangle PQR in which PQ = 8 cm, QR = 5 cm and PR = 8.5 cm. Construct a circle inside the triangle touching all the three sides. What is the diameter of the circle?

- A. 3.6 cm B. 1.8 cm
C. 4.0 cm D. 1.4 cm

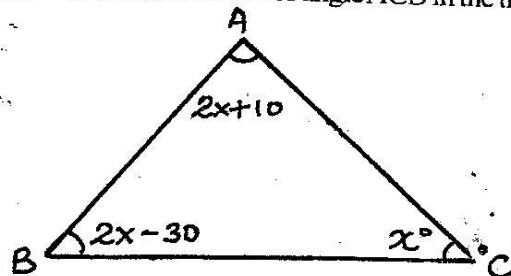
31. A tank is $\frac{3}{4}$ full of water. After 315 litres of water were drawn, it remained $\frac{2}{7}$ full. How many litres does it hold when completely full?

- A. 615 Litres B. 3000 litres
C. 810 litres D. 900 litres

32. What is the value of: $4 + \frac{1.8}{2.5} \times 3.4 - 2$

- A. 7.088 B. 2.192
C. 3.248 D. 5.888

33. Calculate the size of angle ACB in the triangle below:



- A. 40°
B. 28°
C. 44°
D. 32°

34. A plane left Kisumu for Nairobi at a speed of 30m/sec. What was the speed in km/hr?

- A. 180 km/hr B. 98 km/hr
C. 108 km/hr D. 18 km/hr

35. The ratio of goats to cows in a field was 3 : 2. If there are 120 more goats than cows, many cows were there in the field?

- A. 480 B. 240
C. 360 D. 120

36. Work out:

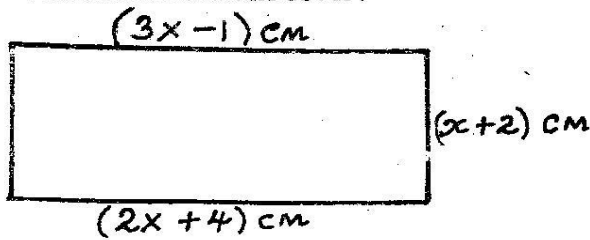
$$\frac{\sqrt{100 - 84}}{26 - 8}$$

- A. 8 B. 1
C. 4 D. $\frac{1}{2}$

37. Boya deposited Sh. 4800 in a bank. At the end of eight months he withdrew all the money from the bank. If the bank paid simple interest at the rate of 15%, how much money did he withdraw?

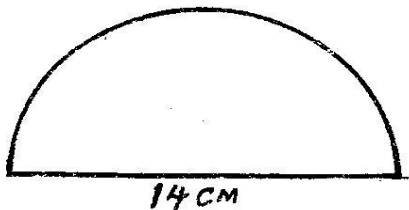
- A. Sh. 480 B. Sh. 4320
C. Sh. 5620 D. Sh. 5280

38. Ochieng walked round the figure below twice. What distance did he cover?



- A. 5 cm B. 42 cm
C. 21 cm D. 94 cm

39. Find the diameter of the figure below



- A. 22 cm
B. 36 cm
C. 44 cm
D. 58 cm

40. What is the smallest number which must be added to 4625 so that it is divisible by 11?

- A. 4 B. 8
C. 12 D. 3

41. What is $2\frac{2}{3}$ of 90?

- A. 240 B. 120
C. 60 D. 270

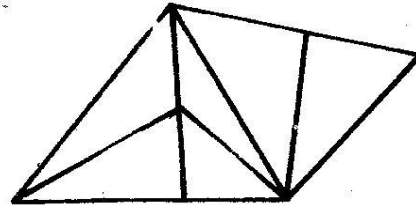
42. John ran 180 km in 10 minutes. Find his speed in m/s.

- A. 30 m/s B. 300 m/s
C. 18 m/s D. 3 m/s

43. Write $12\frac{1}{2}\%$ as a decimal

- A. 12.5 B. 125
C. 1.25 D. 0.25

44. How many triangles can be seen in the figure below?



- A. 10 B. 11
C. 12 D. 7

45. Find the missing number in the pattern below
1, 3, 5, 7, 11, _____

- A. 13 B. 12
C. 15 D. 16

46. What is $\frac{1}{2}$ the $\sqrt{1\frac{19}{16}}$?

- A. $1\frac{1}{4}$ B. $\frac{5}{8}$
C. $1\frac{3}{4}$ D. $\frac{7}{8}$

47. Solve equation $8(y + 2) - 4(y + 3) = 12$

- A. 4 B. $\frac{2}{3}$
C. 2 D. 10

48. When I walked 24 km, I had covered $\frac{3}{5}$ of my journey. How long is my journey?

- A. 64 km B. 33 km
C. 9 km D. 40 km

49. Faith went to the shop and bought the following items:

- 2 kg of salt at Sh. 52.00 per kg
- 4 loaves of bread at Sh. 15.50 per loaf
- $\frac{1}{2}$ kg of meat at Sh. 150.00

How much did she pay for the items?

- A. Sh. 241
B. Sh. 217.50
C. Sh. 194.50
D. Sh. 207.50

50. Mr Magwar deposited some money in the bank that paid a simple interest at the rate of 8% p.a. If he earned Sh. 2880 as interest after 3 years, what was the amount deposited?

- A. Sh. 1200
B. Sh. 12,000
C. Sh. 120000
D. Sh. 14880