

Time : 3 hrs.

MM : 80

General Instructions :

- (i) All questions are compulsory.
- (ii) Read all questions very carefully.
- (iii) Questions 1 to 10 carry 1 mark each.
- (iv) Questions 11 to 18 carry 2 marks each.
- (v) Questions 19 to 28 carry 3 marks each.
- (vi) Questions 29 to 34 carry 4 marks each.

Q1. What is the additive identity of an integer 'a'?

Q2. Solve:

Q3. What is the value of ?

Q4. Write the number of faces for the following solids

- (a) Cylinder
- (b) Cube

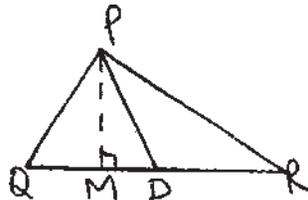
Q5. Identify the following pair of angles as complementary or supplementary.

- (a) 85° and 5°
- (b) 120° and 60°

Q6. Find: $(-3) \times 4 \times (-1) \times (-1)$

Q7. In ΔPQR , $PM \perp QR$ and D is the midpoint of QR

- (a) PM is
- (b) PD is

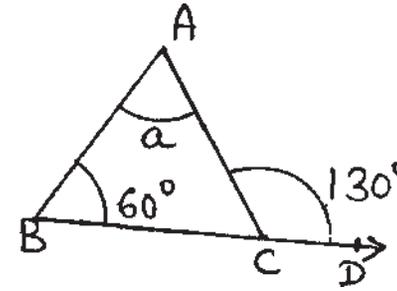


Q8. One of the sides and the corresponding height of a parallelogram are 4 cm and 3 cm respectively. Find the area of the parallelogram.

Q9. Write the place value of 4 in 32.004.

(1)

Q10. Find the measure of 'a' using angle sum property.



Q11. What cross-section do you get when you give a (a) vertical cut (b) horizontal cut to a brick?

Q12. Which is greater :

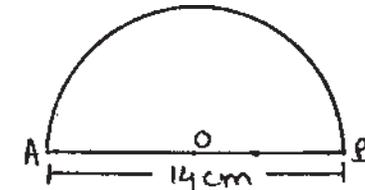
- (a) 0.2 of 0.22
- (b) 1.79 or 1.9

Q13. Draw the number line and represent the rational number

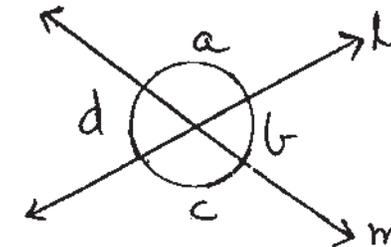
$-\frac{5}{7}$ on it.

Q14. Find the perimeter of the adjoining figure.

$1\frac{1}{2} + \frac{-4}{9} + \frac{1}{2}$



Q15. In the given figure find the value of a, b, c and d, if $\angle b = 60^\circ$



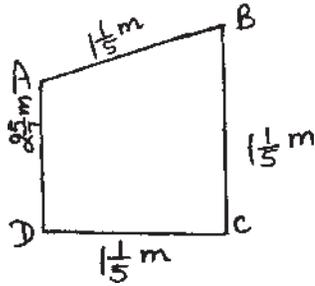
Q16. Determine whether a triangle whose length of sides are 3cm, 4cm and 5cm is a right angled triangle

Q17. Write a pair of integers whose

- (a) sum is -15
- (b) difference is 5.

(2)

Q18. Find the perimeter of the given figure.



Q19. Ankit ate $\frac{1}{5}$ part of pizza and the remaining pizza was eaten by his sister Riya. What part of pizza did Riya eat? Who had larger share? By how much?

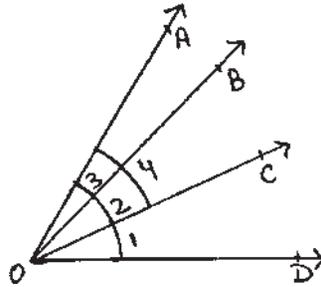
Q20. List four rational number between $\frac{1}{2}$ and $\frac{3}{4}$.

Q21. A path 5m wide runs along inside a square park of side 100m. Find the area of the path.

Q22. In the given figure, are the following adjacent angles?

- (a) $\angle 1$ and $\angle 2$
- (b) $\angle 1$ and $\angle 4$
- (c) $\angle 4$ and $\angle 2$

Give reason.



Q23. Is it possible to draw a triangle with the following sides?

- (a) 7cm, 5cm and 12 cm
- (b) 6cm, 3cm and 2cm

Justify your answer.

Q24. (a) solve: $[(-8) + 4] \div [(-5) + 1]$

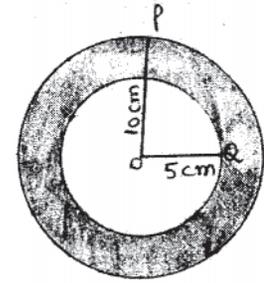
- (b) A stone 15m high in the air fell down at the bottom of a pond 35m deep. By how much distance did the stone fall?

Q25. Three cubes each with 3cm edge are placed side by side. What would be the dimensions of the resulting figure? Also name the figure.

(3)

Q26. The adjoining figure shows two circles with same center. The radius of larger circle is 10cm and radius of smaller circle is 5cm. Find

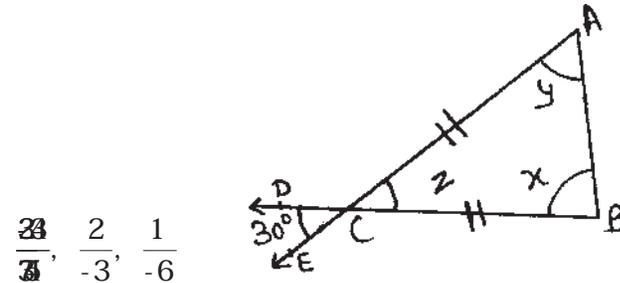
- (a) the area of larger circle
- (b) the area of smaller circle
- (c) the area of shaded portion between two circles.



Q27. Find the product using suitable property

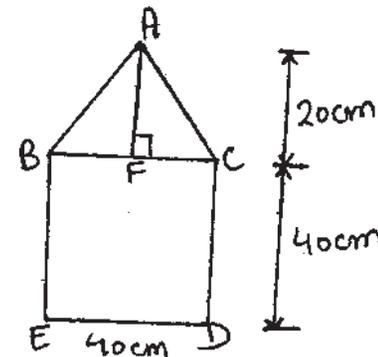
- (a) $65 \times (-35) + (-35) \times (-25)$
- (b) -51×104

Q28. Determine the value of 'x', 'y' and 'z' in the given figure.



$\frac{23}{3}, \frac{2}{-3}, \frac{1}{-6}$

Q29. Find the area of the following figure whose dimensions are shown in figure.



Q30. (a) Arrange the following rational numbers in descending order

(4)

- (b) Tina walks \quad km from a place 'A' towards north and

then from there \quad km towards south. Where will

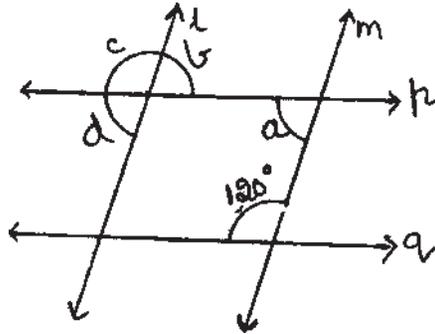
she be now from 'A'?

Q 31. In a class test containing 10 questions, 6 marks are awarded for every correct answer, (-3) marks are awarded for every incorrect answer and 0 mark for questions not attempted.

- (a) Riddhi gets seven correct and three incorrect answer. What is her score?

(b) Karan gets three correct and four incorrect answer out of seven questions he attempts. What is his score?

Q 32. In the given figure $l \parallel m$ and $p \parallel q$ find the measure of angle a, b, c and d.



$\frac{71}{55}$

- Q 33. (a) Express 20 centimetre in metre and kilometre.

(b) A bucket can hold 16.35 l of water. How much water can be stored in 12 such buckets?
- Q 34. (a) Find the perimeter of a rectangle whose side is 20cm and diagonal is 25cm.

(b) PS is the median of a ΔPQR . Is $PQ + QR + RP > 2PS$?

