SA-I (CLASS-VII)

9/2015

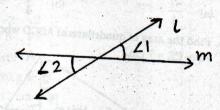
SUBJECT: MATHEMATICS

Time: 3 hrs

MM: 80

General Instructions:

- All questions are compulsory.
- ii) Read all questions very carefully.
- iii) Questions 1 to 10 carry 1 mark each.
- Questions 11 to 18 carry 2 marks each.
- Questions 19 to 28 carry 3 marks each.
- Questions 29 to 34 carry 4 marks each.
- Find: 0.75×1000
- Q2. In the given figure if $\angle 1 = 60^{\circ}$, find $\angle 2$.



- Q3. Solve: $[(-50) \div 10] \div 5$
- Q4. A rectangle is 7 cm long and 4 cm wide. Find its area.
- Q5. In a triangle, two angles are 40° and 70°, find the third
- Q6. Find the product : $\frac{5}{13} \times \left(\frac{-39}{25}\right)$
- Q7. Find: $(-1) \times 2 \times (-3) \times (-1)$
- Q8. Check whether a triangle with the following sides is possible or not: 3 cm, 3 cm and 8 cm.
- Q9. Solve: $\frac{2}{7} + \frac{7}{2}$

- Q10. Reduce $\frac{-49}{70}$ to the standard form.
- Write a pair of negative integers whose sum is -9. Q11. (a)
 - Write a pair of positive integers whose difference is
- Q12. Find the supplement of the following angles:
 - (a) 125°

- Q13. Asha had $5\frac{3}{4}$ m of ribbon. She uses $2\frac{5}{6}$ m of ribbon.

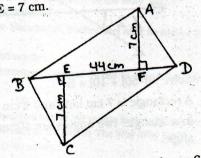
Find the length of ribbon left with her?

Q14. Draw a number line and represent the following rational numbers on it:

(a)
$$\frac{-7}{4}$$

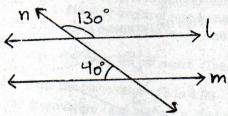
(b)
$$\frac{2}{4}$$

Q15. Find the area of quadrilateral ABCD where BD = 44 cm, AF = CE = 7 cm.



- Q16. The lengths of two sides of a triangle are 6 cm and 8 cm. Between which two numbers can length of the third side
- Q17. If the area of the parallelogram is 24 cm2 and height is 6 cm, find its base.
- Q18. Find four rational numbers between $\frac{1}{3}$ and $\frac{1}{4}$.

Q19. In the given figure, check whether l is parallel to m or iot.



Use the sign of >, < or = in the box to make the statement true.

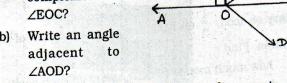
(a)
$$17 - 34 + 15$$
 $29 - 5 - 17$

(b)
$$-7-2+5 \square 9-2-7$$

Q21. Arrange in descending order:

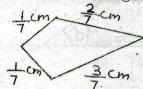
$$\frac{-5}{6}$$
, $\frac{-2}{5}$, $\frac{2}{3}$

- Q22. Convert:
 - (a) 20 g to kg
 - 17 cm to m
- Q23. A path 1.5 m wide is built along the border and inside a square garden of side 25 m. Find area of the path.
- Q24. Find the product, using suitable properties:
 - (a) -41×103
 - (b) $25 \times 10 + 25 \times (-12)$
- Q25. In the given figure:
 - (a) What is the complement of ∠EOC?
 - (b) Write an angle adjacent



Write one pair of angles forming linear pair.

- Q26. (a) Cost of 1 m of cloth is ₹ 4.75. Find the cost of 20m
 - Find the perimeter of the given figure.



- 927. A tree is broken at a height of 16 m from the ground and its top touches the ground at a distance of 12 m from the base of the tree. Find the original height of the tree.
- Q28. The given figure shows two circles with the same centre. The radius of the larger circle is 20 cm and the radius of the smaller circle is 10 cm. Find :
 - the area of the larger circle.
 - the area of the smaller circle. (b)
 - the shaded area between the two circles. (Take $\pi = 3.14$)



- Q29. (a) In a quiz, +5 marks are awarded for every correct answer and (-3) for every incorrect answer. Madhuri answered 12 questions out of which only 7 answers were correct and 5 answers were incorrect. Find the total score of Madhuri.
 - The temperature of a city was 26°C on Wednesday. The temperature rose by 2°C on Thursday and fell by 5°C on Friday. What was the temperature of the city on Friday?
- Q30. Rajat's monthly salary is ₹ 96000. He spends $\frac{1}{4}$ of his

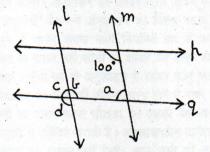
salary on food, $\frac{1}{5}$ on rent and $\frac{1}{6}$ on education of poor children. Find:

- how much money does he spend on each part?
- how much money is still left with him?

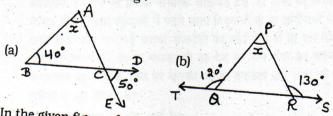
- (c) write one importance of education.
- Qu1. (a) A gardener wants to fence a circular garden of radius 49 m. Find the length of rope he needs to purchase if he makes 3 rounds of fence. Also, find the cost of

rope, if it costs ₹ 5 per metre. (Take $\pi = \frac{22}{7}$)

- Write the place value of 3 in 4.03.
- Q32. In the given figure $l \parallel m$ and $p \parallel q$, find the measure of angles a, b, c and d.



Q33. Find x in the following:



Q34. In the given figure, find the area of the shaded portion.

