

**INDIAN SCHOOL SOHAR**  
**SUMMATIVE ASSESSMENT 1**

**MATHEMATICS**

STD VII

Marks: 60

28/09/2014

Time: 2 Hours

**General Instructions:**

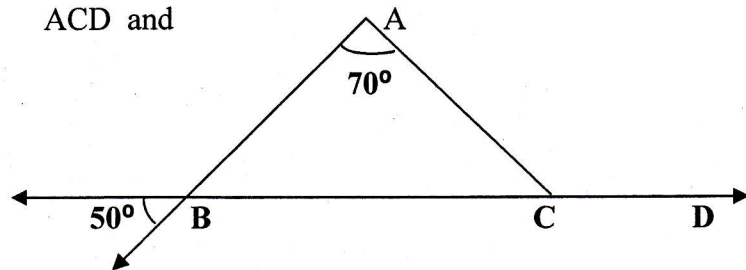
All questions are compulsory. The question paper consists of 24 questions divided into four sections A, B, C & D. Section A comprises 6 questions each carries 1 mark, Section B comprises 6 questions of 2 marks, Section C comprises 6 questions of 3 marks & Section D comprises 6 questions of 4 marks.

Do the calculations in the working column. Give necessary formulae and steps wherever required.

- Express 15 kg 5 gm in Kilogram.  
A. 15.5 Kg      B. 15.05 Kg      C. 15.005Kg      D. 1550 Kg
- \_\_\_\_\_ of a triangle is a line segment that joins a vertex to the mid-point of its opposite side.  
A. Centroid      B. Altitude      C. Median      D. Perpendicular bisector
- The quotient of  $(-40) \div 10$  is \_\_\_\_\_.  
A. 1      B. -4      C. -40      D. 4
- "Eight times m plus 3 gives 85" is written in equation form as \_\_\_\_\_.  
A.  $8m + 3 = 85$       B.  $3m + 8 = 85$       C.  $8(m+3) = 85$       D.  $m + 24 = 85$
- Which of the following pairs of angles is complementary?  
A.  $65^\circ, 35^\circ$       B.  $115^\circ, 75^\circ$       C.  $82^\circ, 98^\circ$       D.  $56^\circ, 34^\circ$
- The **Range** of the following data: 36, 40, 22, 44, 55, 52 is \_\_\_\_\_.  
A. 55      B. 22      C. 33      D. 44

**SECTION B**

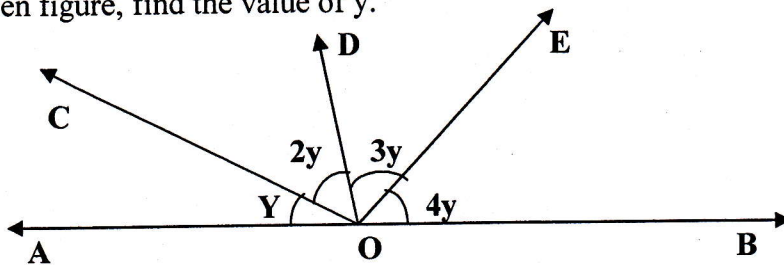
7. In the given figure, find  $\angle ABC$ ,  $\angle ACD$  and  $\angle ACB$



8. Find  $5\frac{1}{2} \div 6\frac{1}{5}$

9. Find the mode of the following data: 149, 150, 148, 150, 147, 149, 151, 150.

10. In the given figure, find the value of  $y$ .



11. In a class of 40 students the number of girls is  $\frac{3}{5}$  of the number of boys. Find the number of boys in the class.

12. Find a pair of integers whose (a) Sum is 0. (b) Difference is -16

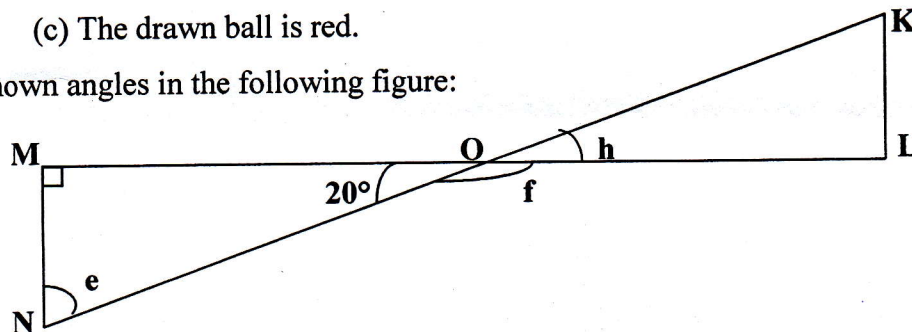
### SECTION C

13. A bag contains 4 green, 5 black and 10 red balls. A ball is drawn at random. Find the probability that (a) The drawn ball is black.

(b) The drawn ball is not green.

(c) The drawn ball is red.

14. Find the unknown angles in the following figure:



15. Give the step / steps that you will use to separate the variable and solve the equation.

$$16 = 4 + 3(t + 2)$$

16. The area of a rectangular field is  $282.125 \text{ m}^2$  and length is 18.5 m. If the cost of fencing the field is Rs 10.5 per metre, find the total cost of fencing the field?

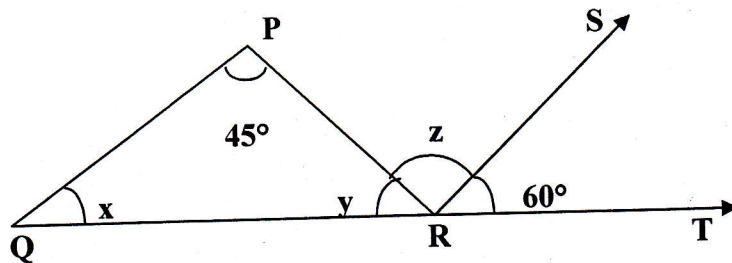
17. In a medical entrance examination, there are 60 questions in Biology paper; 4 marks are given for every correct answer and  $-2$  marks are given for every incorrect answer.

a. Muskan attempts all questions but only 50 of her answers are correct. What is her total score?

b. Urvi attempts 50 questions and gets 42 correct answers. What is her total score?

c. Who scored more marks?

18. In the adjoining figure, if  $PQ \parallel SR$  find  $x$ ,  $y$  and  $z$ .



### SECTION D

19. (a) Cost of 1kg tomatoes is Rs.  $19\frac{1}{4}$ . Find the cost of  $3\frac{1}{2}$  kg tomatoes?

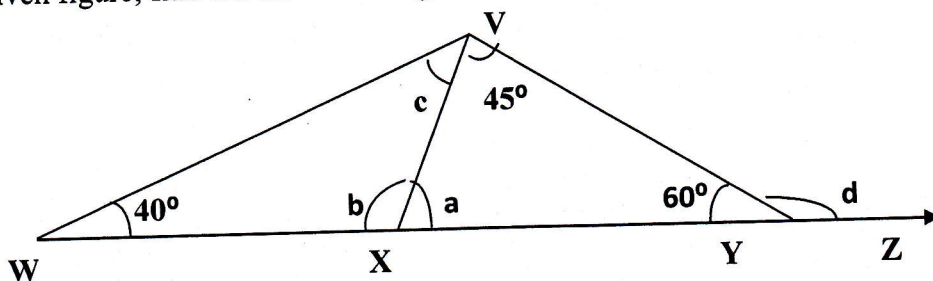
(b) Amit got Rs.100 from his father. He spent Rs.32.50 on shopping and Rs.17 as bus fare. How much money is left with him?

20. The performance of a student in half yearly and final examinations is given below:

Subject	English	Hindi	Mathematics	Science	Social Science
Half Yearly	80	78	74	85	60
Final	83	65	84	90	55

Draw a double bar graph to represent the above data.

21. In the given figure, find the unknown angles  $a$ ,  $b$ ,  $c$  and  $d$ .



22. (a) Age of Ravi's father is 4 years more than 5 times Ravi's age. What is the present age of Ravi if his father is 34 years old?

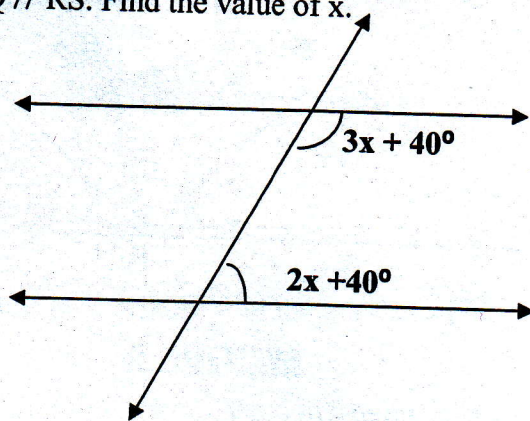
(b) Find a number which when added to its half gives 27?

23. (a) Find the product using suitable property:  $(-8225) \times 999 - 8225$

(b) Isha travelled in a bus towards east of Delhi by 58 km and then towards west of Delhi by 82 km. How far was she from Delhi finally (The distance towards east is represented by a positive integer).

24. (a) An angle has a measure  $50^\circ$  more than the measure of a supplement to it. What is the measure of the angle?

(b) In the given figure,  $PQ \parallel RS$ . Find the value of  $x$ .



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