

Amity (PV)

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VII-D

Mid Term Exam – 2017-2018

Class – VII

Subject – MATHEMATICS

Time: 3 Hours

Max. Marks: 80

General Instructions

1. This question paper consists of 4 sections.
Section-A contains 10 questions of 1 mark each.
Section-B contains 8 questions of 2 marks each.
Section-C contains 10 questions of 3 marks each.
Section-D contains 6 questions of 4 marks each.
2. All questions are compulsory.
3. Draw neat and labeled diagrams wherever necessary.

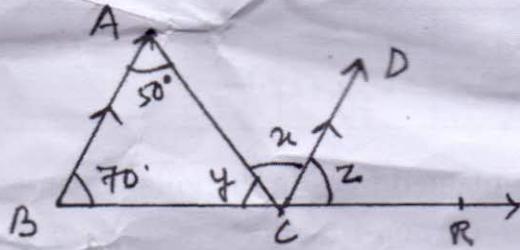
SECTION – A

1. Arrange the following integers in descending order:
-3, -1, 0, 7, -4, 5
2. Find the product of $(-45) \times (-20) \times (113)$
3. Multiply: $\frac{8}{25} \times \frac{5}{16} \times \frac{13}{26}$
4. Divide: $\frac{24}{9} \div \frac{13}{25}$
5. Find the arithmetic mean of first 5 prime numbers.
6. Write an equation for the given statement "One fourth of m is 3 more than 7".
7. Solve the equation: $-2t + 73 = -10 + 7t$
8. An angle is $\frac{2}{3}$ of its complement. Find the angle.
9. Two angles of a triangle are 72° and 48° . What is the measure of the third angle?
10. Is it possible to make a triangle with sides measuring 5.2cm, 4.7cm, 9cm.

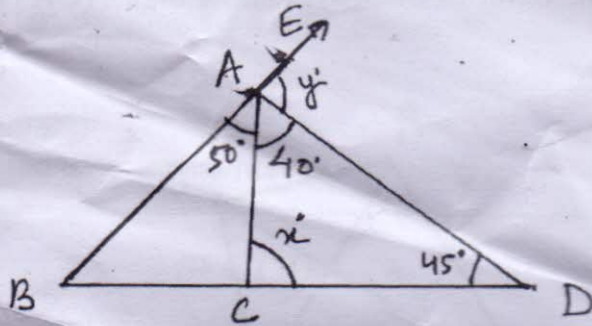
SECTION – B

1. Find the value, using suitable property $85128 \times 99 - (-85128)$
2. By what number we should multiply $\frac{15}{29}$ so that the product is $\frac{3}{7}$.

8. In the given figure, $AB \parallel CD$, Find the measure of x, y, z .



9. Find the value of x and y in the figure given below



10. State the number of lines of symmetry for the following figures:

- (i) An equilateral triangle
- (ii) An isosceles triangle
- (iii) A scalene triangle
- (iv) A square
- (v) A rectangle
- (vi) A rhombus

SECTION - D

1. A cement company earns a profit of Rs. 8 per bag on white cement sold and a loss of Rs. 5 per bag of grey cement sold.
 - (a) The company sells 3000 bags of white cement and 5000 bags of grey cement in a month. What is the profit or loss?
 - (b) What is the number of white cement bags it must sell to have neither profit nor loss, if the number of grey bags sold is 6400 bags.

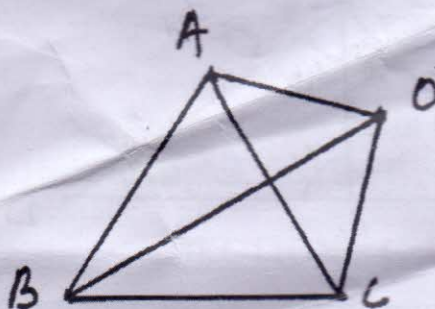
2. Simplify $\left(\frac{3}{11} \times \frac{5}{6}\right) - \left(\frac{9}{12} \times \frac{4}{3}\right) + \left(\frac{5}{13} \times \frac{6}{15}\right)$

3. Draw bar graph to represent the following data:

Colour	Red	Orange	Yellow	Green	Blue	Pink
No. of boys	15	10	5	8	15	7

4. People of Sundaragram planted trees in the village garden. Some of the trees were fruit trees. The number of non-fruit trees were two more than three times the number of fruit trees. What was the number of fruit trees planted if the number of fruit trees planted were 77?

5. If O is a point in the exterior of $\triangle ABC$, show that $2(OA+OB+OC) > AB+BC+CA$.



6. A tree broke from a point but did not separate. If the point from where it broke 7m above the ground and its top touches the ground at a distance of 24 m from its base, find the total height of the tree before it broke.