INDIAN SCHOOL SOHAR
FORMMATIVE ASSESSMENT -3
MATHEMATICS

Class: VII   Time: 40 Min.

Date: 09-11-2014   Marks: 20

General Instructions: All questions are compulsory.

SECTION –A (Each question carries 1 mark)

Choose the correct answer from the options given

1. In a city, 40 % are males, 35 % are females and remaining are children, find the percentage of children…(A) 35%   (B) 45%   (C) 25 %   (D) 100%

2. Two triangles are congruent if the three sides of the one triangle are equal to three corresponding sides of other triangle, then the congruence criterion is ….

    (A)SSS   (B) SAS   (C) ASA   (D) RHS

3. The length of two sides of a triangle are 12 cm. and 15 cm. then the third side will be

    (A) Between 3 cm. and 27 cm.   (B) more than 29 cm. (C) less than 2   (D)equal to 1

SECTION - B (Each question carries 2 marks

4. Triangle ABC is a right angled triangle at C. If AC is 5 cm. BC is 12 cm. , find the length of AB.

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SECTION –A (Each question carries 1 mark)

Choose the correct answer from the options given

1. A basket is full of fruits , oranges 35 % ,apples 40 % and rest are mangoes. Find the percentage of mangoes…

    (A)35%   (B) 45 %   (C) 25 %   (D) 100%

2. Two triangles are congruent if the two sides and one included angle of one triangle are equal to two sides and one included angle of another triangle, then the congruence criterion is ….

    (A)SSS   (B) SAS   (C) ASA   (D) RHS

3. In a class there are 32 students, out of it 24 are present, the percentage of present

   (A)75 %   (B) 50 %   (C) 25 %   (D)10 %

SECTION - B (Each question carries 2 marks)

4. Triangle PQR is a right angled triangle at P. If PQ is 10 cm. PR is 24 cm. , find the length of QR.

5. In a class there are 75 students. Out of it 45 are girls. Find the percentage of girls and boys of the class.

SECTION - C (Each question carries 3 marks)

6. The triangl ABC is an isosceles triangle , AB = AC and D is the mid-point of side BC. Prove $\triangle$ ABC $\cong \triangle$ADC and $\angle$ B = $\angle$ C
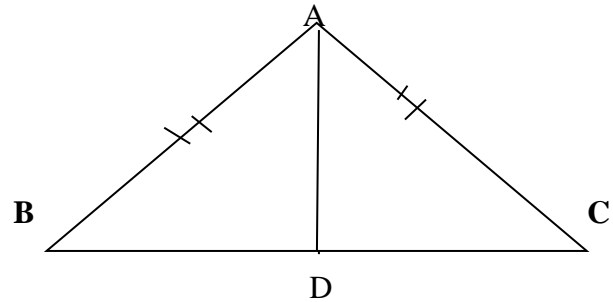
7. A ladder 17 m. long reached a window 15 m. high from the ground on placing it against a wall at a distance a. Find the distance of the foot of the ladder from the wall.

15m. ladder 17 m.
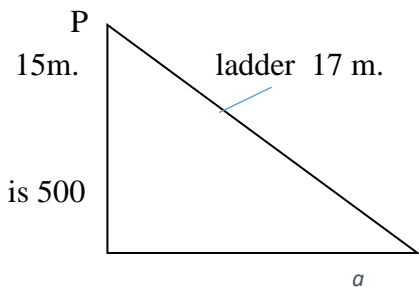
8. Find :- (A) 45 % of 900   (B) 25 % of it is 500

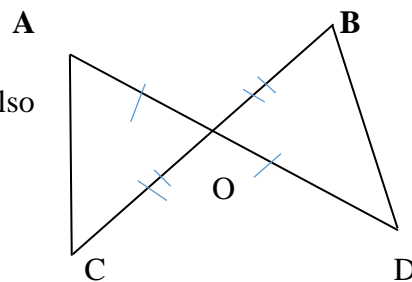## SECTION - D (The question carries 4 marks)

9. Find the perimeter of the rectangle whose diagonal is 15 cm. and length is 9 cm.

a

5. Neha saves Rs.500 from her salary. If this is 10 % of her salary then find her total salary

A   B

SECTION - C (Each question carries 3 marks)

6. Prove triangle AOC $\cong$ triangle BOD and also

$\angle$ A = $\angle$ B

O

C   D

7. A tree is broken at a height of 8 m. from the ground and its top touches the ground at a distance of 15 m. from the base of the tree .Find the original height of the tree.

8. Find :- (A) 60 % of it is 18   (B) 20 % of 1200

SECTION - D (question carries 4 marks)

9. Find the perimeter of the rectangle whose diagonal is 13 cm. and length is 5cm