ST. XAVIER'S SENIOR SECONDARY SCHOOL, DELHI-54

Class : 7 | SUMMATIVE ASSESSMENT 2 | Marks: 60

Date: 03.03.2015 | MATHS | Time:1 $\frac{1}{2}$ Hours

Note: All the answers should be done on the answer sheet.

1. Solve the following equations:- (2×2=4)

   a) $2(y + 7) = 3(y - 10)$

   b) $\frac{3x-4}{5} = \frac{2x+4}{2}$

2 In a school the monthly Fee collection of 350 students is Rs. 3,85,000. What will be the collection fee of 58 students for a month? (2)

3 Circumference of a circle is 88 cm. Find the diameter of the circle. (2)

4 The base and height of a triangle are in the ratio of 3:2 and it's area is 108 cm^2. Find it's base and height. ($2\frac{1}{2}$)

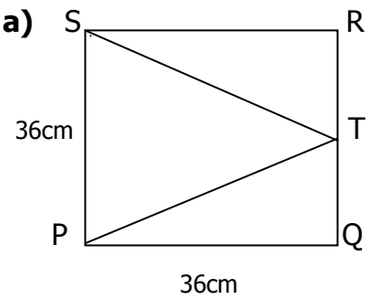
5 A wire when bent in the form of a square encloses an area of 484 sq. cm. If the same wire is re-bent in the form of a circle find the radius of the circle. ($2\frac{1}{2}$)

6 The length of a rectangle is 4 more than twice of its breadth. If the perimeter of the rectangle is 2012. Find the dimensions of the rectangle. (3)

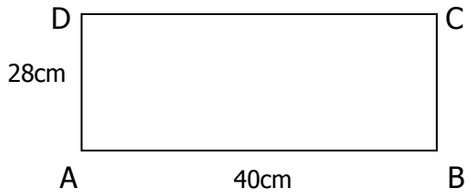
7 At what rate percent per annum will Rs. 7000 produce Rs. 350 as simple interest in 2 years (3)

8 Find the area of the shaded portion. (3x2)

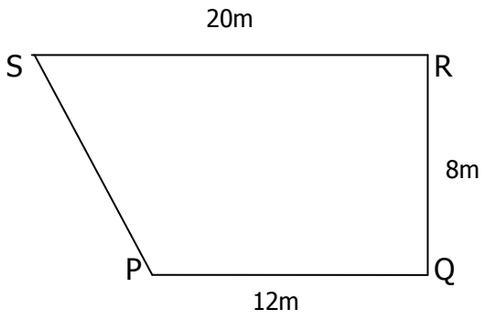
a)



b)



9 Calculate the area of quadrilateral PQRS shown in the figure given below. (3)



Cont'd….2/-

10 A horse and a cart together cost Rs.1600. If the cost of the cart is one third the cost of the horse. Find the cost of horse and cart. (3)

11 Arun purchased an old scooter for Rs. 27,500 and spent Rs.1,720 for it's repairing. He sold the scooter to make a profit of 35%. Find the selling price of the scooter. (3)

12 60% of the population of a town are females. If the total population of the town is 3,75,000. Find the No of males in the town. (3)

13 Albin secures 720 marks out of 800 and Raju Secures 875 out of 1000. Whose performance is better. (3)

14 Construct the following triangles.

a. $\Delta PQR : PQ = 6.5cm,\ \angle P = 70°,\ \angle Q = 60°$ (4)

b. $\Delta ABC : BC = 7cm,\ AB = 5cm,\ \angle B = 90°$ (4)

c. $\Delta XYZ : XY = 3.8cm,\ XZ = 5.2cm,\ YZ = 6cm$ (4)

15 Solve and check your answers. (4)

a. $2(x+5)+4(2x-3)=-32$

16 A table cover 4m X 2m is spread on a table. If 25cm of the table cover is hanging all around the table, find the area of the table top and the cost of polishing the table top at Rs.25 per square metre. (4)

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Class : 7 | SUMMATIVE ASSESSMENT 2 | Marks: 20

Date: 03.03.2015 | MATHS | Time: 30 minutes

Name: _____ Class & Sec. _____ R. No. _____

Note: All the answers should be done on the question paper itself.

I Tick the correct option :

1. _____ is the distance around a closed figure.

   a. Area b. Perimeter c. Surface area

2 If the circumference of circle is 4 π then it's radius is _____

   a. 4 b. 2 c. 6

3 Circles having the same centre are called _____

   a. Concentric Circles b. Concurrent circles c. Circumference

4 Can a triangle be constructed with the sides 6cm, 3cm, 2cm.

   a. Yes b. No c. None of these

5 $\frac{2}{5}$ of a number 25 is _____ ?

   a. 10 b. 15 c. 25

6 Six added to a number gives 10, then the number is _____

   a. 4 b. 6 c. 2

7 The equation in which the highest power of the variables is 1, is known as

   a. Polynomial b. Linear equation c. Monomial

8 $x + 7 = 10$, then $x =$ _____

   a. 7 b. 10 c. 3

9 The value of variable is called _____

   a. coefficient b. literal factor c. Root of the equation

10 Sum of 2 consecutive numbers is 13, then the numbers are _____ _____

   a. 6, 7 b. 10, 3 c. 12, 1

11 C P = 270, Loss = 35, SP = _____

   a. 305 b. 295 c. 235

Cont'd….2/-

12 Area of square whose side is 6cm

a. 36 cm^2 b. 24 cm^2 c. 10 cm^2

13 The height of parallelogram whose area 24cm^2 and base 6cm is _____

a. 4cm b. 30cm c. 8cm

14 Express 3:5as per cent.

a. 3% b. 60% c. 8%

15 Perimeter of Rectangle whose length 8cm and breadth 7cm is _____.

a. 56cm b. 30cm c. 17cm

16 12% of 600 is _____

a. 612 b. 120 c. 72

17 P = 800, T =2, R = 10% Then interest is _____

a. 80 b. 160 c. 240

18 Percent is a fraction with _____ as its denominator.

a. 10 b. 100 c. 1000

19 Principal = amount – (_____)

a. interest b. Rate c. Time

20 Loss percent = $\frac{loss}{\square} \times 100$

a. CP b. SP c. Gain

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