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FIRST TERM EVALUATION 2014 - 2015

Mathematics

Time: 2 hrs.

Score: 50

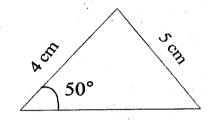
Std. 8

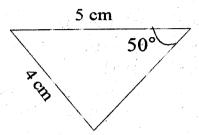
1.

Instructions:

A You are not supposed to write anything during the cool - off time.

A Read the instructions carefully and attempt the questions.





Are the triangles congruent? Justify your answer

3

- 2. State true or false
 - a. If two sides of a triangle are unequal, the angle opposite to the larger side is larger.
 - b. If three angles of one triangle are equal to three angles of the other triangle, then the two triangles are congruent.
 - c. Sides opposite to equal angles of a triangle are equal.

3

3. The cost of 12 books is Rs. 54. What is the cost of 15 books.

3

4. Simplify the followings

a.
$$(3x - 8.5) + (7x - 8.5)$$

b.
$$(-1)^4 + (-1)^3 + (-1)^2 + (-1)^1 + (-1)^0$$

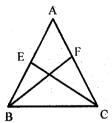
c.
$$\frac{-25}{5} \times \frac{10}{-5} \times \frac{-5}{2} \times \frac{2}{5}$$

4

5. E and F are respectively the mid points of equal sides AB and AC of triangle ABC.

Show that BF = CE





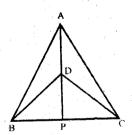
- 6. a. Draw a line of length 5.5cm. Then construct a line of length 2.75cm.
 - b. Draw an angle. Then draw its angle bisector.

If 7:13 = K: 5/2 find the value of K. 7.

- If 15 workers can complete a job in 48 hours, how many workers will be required 8. to do the same work in 30 hours?
- Simiplify the followings
 - a. (4x 3y) (3y 4x)
 - b. (7x + y)3 4(x-y)

- c. (x-y)+(y-x)-(x+y)
- If a box of sweets is divided among 24 students, they will get 5 sweets each. How many would each get if the number of students is reduced by 4.
- The perimeter of a quadrilateral is 98cm and its sides are in the ratio 1:2:5:6. What 11. are the lengths of the sides?
- If x = -2, y = 5 and z = -7, then prove the followings
 - a. (x+y)z = xz + yz
 - b. (x-y)-z=x-(y+z)
 - c. x (y z) = (x-y) + z

In the figure AB = AC and BD = CD. Then show that



- a. ∆ABD ≅ ∆ ACD
- b. $\triangle ABP \cong \triangle ACP$
- c. AP bisects ∠A as well as ∠D