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CBSE 10th Construction Unsolved Paper

TIME - 3HR. | QUESTIONS – 17

THE MARKS ARE MENTIONED ON EACH QUESTION

Q.1. Construct a triangle of sides 4cm, 5 cm and 6 cm and then a triangle siilar to it whose sides are $\frac{2}{3}$ od the crresponding sides of the first triangle.

Q.2. Construct a triangle with sides 5 cm, 6cm and 7cm and then another triangle whose sides are $\frac{7}{5}$ of the corresponding sides of the first triangle.

Q.3. Draw a triangle ABC with side $BC = 6cm, AB = 5cm \ and \ \angle ABC = \ 60^0$. Then construct a triangle whose sides are $\frac{3}{4}$ of the corresponding sides of the triangle ABC.

Q.4. Draw a triangle ABC with side $BC = 7cm, \ \angle B = \ 45^0, \ \angle A = \ 105^0$. Then construct a triangle whose sides are $\frac{4}{3}$ times the corresponding sides of triangle ΔABC.

Q.5. Draw a circle of radius 6cm. from a point 10cm away its centre, construe the pair of tangents to the circle and measure their lengths.

Q.6. Draw a circle of radius 6cm. from a point 3cm. take two point P and Q on one of its extended diameter each at a distance of 7cm from its centre. Draw tangents to the circle from these two points P and Q.

Q.7. Draw a pair of tangents to a circle of radius 5cm which are inclined each other at an angle of 60^0.

Q.8. Construct a triangle with sides 5 cm, 6 cm and 7 cm and then another triangle whose sides are $\frac{3}{4}$ of the corresponding sides of the first triangle. Give the justification of the construction.

Q.9. Draw a triangle ABC with side BC = 6 cm, AB = 5 cm and ∠ABC = 60°. Then construct a triangle whose sides are $\frac{3}{4}$ of the corresponding sides of the triangle ABC. Give the justification of the construction.

Q.10. Draw a right triangle in which the sides (other than hypotenuse) are of lengths 4 cm and 3 cm. the construct another triangle whose sides are $\frac{3}{4}$ times the corresponding sides of the given triangle. Give the justification of the construction.

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Q.11. Construct a triangle of sides 4 cm, 5cm and 6cm and then a triangle similar to it whose sides are $\frac{2}{3}$ of the corresponding sides of the first triangle. Give the justification of the construction.

Q.12. Draw a pair of tangents to a circle of radius 5 cm which are inclined to each other at an angle of 60°. Give the justification of the construction.

Q.13. Draw a line segment AB of length 8 cm. Taking A as centre, draw a circle of radius 4 cm and taking B as centre, draw another circle of radius 3 cm. Construct tangents to each circle from the centre of the other circle. Give the justification of the construction.

Q.14. Draw a circle of radius 6 cm. From a point 10 cm away from its centre, construct the pair of tangents to the circle and measure their lengths. Give the justification of the construction.

Q.15. Let ABC be a right triangle in which AB = 6 cm, BC = 8 cm and ∠B = 90°. BD is the perpendicular from B on AC. The circle through B, C, and D is drawn. Construct the tangents from A to this circle. Give the justification of the construction.

Q.16. Draw a circle with the help of a bangle. Take a point outside the circle. Construct the pair of tangents from this point to the circles. Give the justification of the construction.

Q.17. Construct a tangent to a circle of radius 4 cm from a point on the concentric circle of radius 6 cm and measure its length. Also verify the measurement by actual calculation. Give the justification of the construction.

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