

1. Write the steps of construction of a $\triangle ABC$ in which $AB = 5$ cm, $BC = 6$ cm and $\angle ABC = 60^\circ$. Then write the steps of construction of another triangle whose sides are $\frac{3}{4}$ times the corresponding sides of $\triangle ABC$.
2. Write the steps of construction of two tangents to a circle of radius 3 cm which are inclined to each other at an angle of 60° .
3. Draw a line segment AB of length 7 cm. Taking A as centre, draw a circle of radius 3 cm and taking B as centre, draw another circle of radius 2 cm. Construct tangents to each circle from the centre of the other circle.
4. Construct a triangle with sides 4 cm, 5 cm and 6 cm. Then construct another triangle whose sides are $\frac{2}{3}$ times the corresponding sides of the first triangle.
5. Draw a $\triangle ABC$ with $BC = 7$ cm, $\angle B = 45^\circ$ and $\angle A = 105^\circ$. Then construct another triangle whose sides are $\frac{3}{4}$ times the corresponding sides of $\triangle ABC$.
6. Draw a circle of radius 2 cm with centre O and take a point P outside the circle such that $OP = 6.5$ cm. From P , draw two tangents to the circle.
7. Construct a triangle with sides 5 cm, 6 cm and 7 cm and then construct another triangle whose sides are $\frac{3}{4}$ times the corresponding sides of the first triangle.
8. Draw two tangents to a circle of radius 4 cm, which are inclined to each other at an angle of 60° .
9. Construct a triangle ABC with sides 3 cm, 4 cm and 5 cm. Now, construct another triangle whose sides are $\frac{4}{5}$ times the corresponding sides of $\triangle ABC$.

10. Draw a circle of radius 3.5 cm. From a point P, 6 cm from its centre, draw two tangents to the circle.
11. Construct a ΔABC with $AB = 6$ cm, $BC = 5$ cm and $\angle B = 60^\circ$.
Now construct another triangle whose sides are $\frac{2}{3}$ times the corresponding sides of ΔABC .
12. Construct a triangle with sides 5 cm, 6 cm and 7 cm. Now construct another triangle whose sides are $\frac{2}{3}$ times the corresponding sides of the first triangle.
13. Draw a pair of tangents to a circle of radius 3 cm which are inclined to each other at an angle of 60° .
14. Construct a ΔABC with sides $BC = 6$ cm, $AB = 5$ cm and $\angle ABC = 60^\circ$.
Then construct a triangle whose sides are $\frac{3}{4}$ of the corresponding sides of ΔABC .
15. Draw a circle of radius 3.5 cm. Take a point P outside the circle at a distance of 7 cm from the centre of the circle and construct a pair of tangents to the circle from that point.
16. Draw a triangle ABC with side $BC=6.5$ cm, $\angle B=30^\circ$, $\angle A =105^\circ$. Then construct another triangle whose sides are $\frac{3}{4}$ times the corresponding sides of the triangle ABC.
17. Construct a pair of tangents to a circle of radius 3 cm which are inclined to each other at an angle of 60°