



MATHS

BOOKS - SUPER COMPANION MADE EASY

CONSTRUCTIONS

Exercise 6 1

1. Draw a line segment of length 7.6 cm and divide it in the ratio 5 : 8. Measure the two

parts.



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



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



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4. Construct an isosceles triangle whose base is 8 cm and altitude 4 cm and then another triangle whose sides $1\frac{1}{2}$ times the corresponding sides of the isosceles triangle.



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5. Draw a triangle ABC 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 the triangle ABC .

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6. Draw a triangle ABC with side $BC = 7$ cm, $\angle B = 45^\circ$, $\angle A = 105^\circ$. Then, construct a

triangle whose sides are $\frac{4}{3}$ times the corresponding sides of $\triangle ABC$.



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7. Draw a right triangle in which the sides (other than hypotenuse) are of lengths 4 cm and 3 cm. Then construct another triangle whose sides are $\frac{5}{2}$ times the corresponding sides of the given triangle.



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Exercise 6 2

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



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2. 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.



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3. Draw a pair of tangents to a circle of radius 5 cm which are inclined to each other at an angle of 60° .



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4. 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.



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5. Draw a circle the help of a bangle. Take a point outside the circle. Construct the pair of tangents from this point to the circle.





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