



MATHS

BOOKS - RD SHARMA MATHS (ENGLISH)

CONSTRUCTIONS



1. Draw an $\angle BAC$ of measure 50^0 such that

 $AB = 5 \ cm$ and $AC = 7 \ cm$. Through C

draw a line parallel to AB and through Bdraw a line parallel to AC, intersecting each other at D. Measure BD and CD.

Watch Video Solution

2. Draw a line PQ . Draw another line parallel

to PQ at a distance of 3 cm from it.

3. Take any three non-collinear points A, B, Cand draw ABC. Through each vertex of the triangle, draw a line parallel to the opposite side.

Watch Video Solution

4. Draw two parallel lines at a distance 5 cm

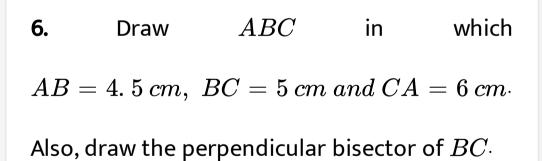
apart.

5. Construct a triangle ABC if the lengths of

its sides are given by

 $AB=6\,cm,\;BC=7\,cm$ and $AC=5\,cm$.

Watch Video Solution



7. DrawABC in which $AB = 5 \ cm$. $BC = 6 \ cm$ and $CA = 7 \ cm$. Also, draw perpendicular bisector of side BC. Watch Video Solution **8.** DrawPQR in which $PQ=3\,cm$, $QR = 4 \ cm$ and $RP = 5 \ cm$. Also, draw the bisector of $\angle Q$.

9. Draw an equilateral triangle one of whose

sides is of length $7\,cm$.

Watch Video Solution

10. Draw a triangle whose sides are of lengths $4 \ cm$, $5 \ cm$ and $7 \ cm$. Draw the perpendicular bisector of the largest side.

11. Draw a triangle ABC with $AB = 6 \ cm$, $BC = 7 \ cm$ and $CA = 8 \ cm$. Using ruler and compass alone, draw (i) the bisector AD of $\angle A$ and (ii) perpendicular AL from A on BC. Measure LAD.

Watch Video Solution

12. DrawDEF such that $DE = DF = 4 \ cm$

and EF=6~cm· Measure $\angle E~and$ $\angle F$ ·

13. Draw any triangle ABC . Bisect side AB at D . Through D , draw a line parallel to BC , meeting AC in E . Measure AE and EC .



14. Construct ABC in which

 $\angle B = 60^0, \ AB = 5 cm \ and \ BC = 6 cm$.

15. Draw a triangle ABC with $BC = 3.2 \, cm, \ AB = 3.6 \, cm$ and $\angle B = 120^{0}$. Also draw a perpendicular from A on BC.

16. DrawABC in which $AB = 3 \ cm$,

 $BC=5\,cm$ and $ar{}B=70^{0}\cdot$

Watch Video Solution

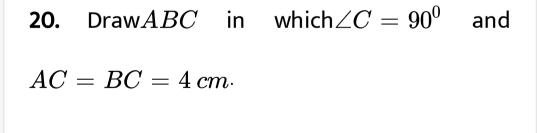
17. DrawABC in which $\angle A = 70^0$,

 $AB=4\,cm$ and $AC=6\,cm$. Measure BC.

Watch Video Solution

18. Draw an isosceles triangle in which each of the equal sides is of length 3 cm and the angle between them is 45^{0} .

19. DrawABC inwhich $\angle A = 120^0, AB = AC = 3cm$.Measure $\angle B$ and $\angle C$.**Watch Video Solution**



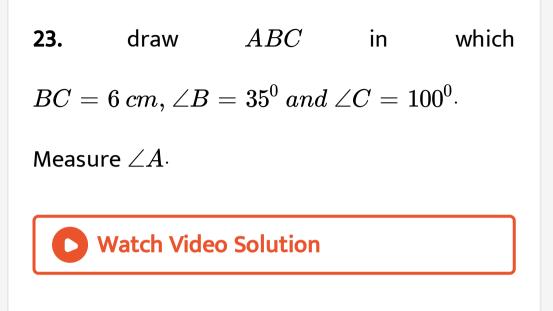


21. Draw a triangle ABC in which $BC = 4 \ cm, \ AB = 3 \ cm$ and $\angle B = 45^{\circ}$. Also, draw a perpendicular from A on BC.



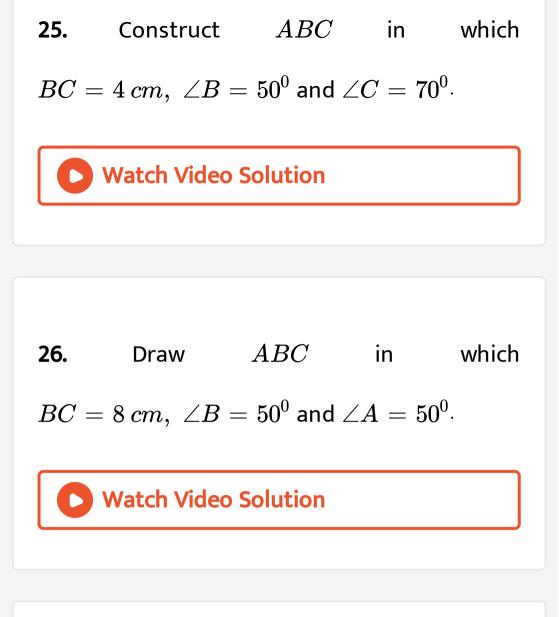
22. Draw a triangle ABC with AB = 3 cm, BC = 4 cm and $\angle B = 60^{0}$. Also, draw the bisector of angles C and A of the triangle, meeting in a point O. Measure $\angle COA$.



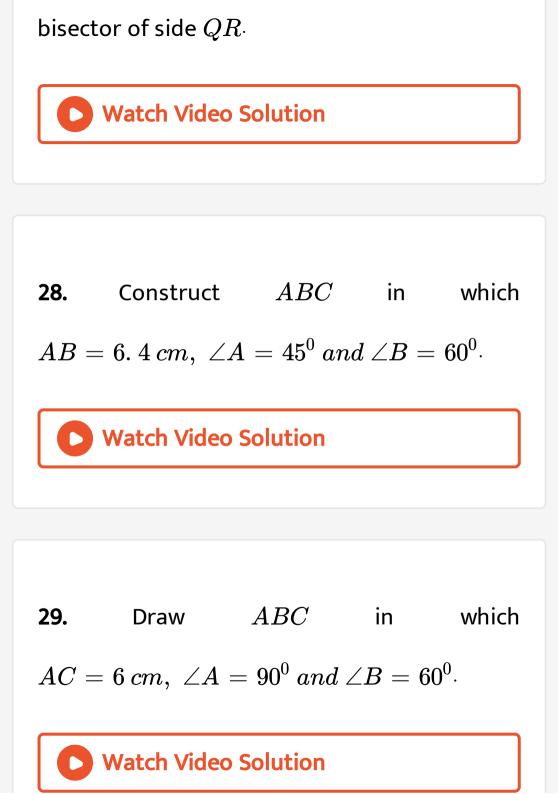


24. Draw a triangle ABC in which

 $BC=5.\ 2\ cm,\ igta B=60^0\ and\ igta A=100^0.$



27. Draw PQR in which $\angle Q = 80^{0}, \angle R = 55^{0}$ and $QR = 4.5 \ cm^{.}$ Draw the perpendicular



30. Draw triangle ABC with $\angle C$ a right angle,

 $AB=6.\ 2\ cm$ and $BC=4.\ 5\ cm$.



31. Draw a right triangle having hypotenuse of

length 5. $4 \, cm$, and one of the acute angles

of measure 60^{0} .



32. Draw a right triangle with hypotenuse of

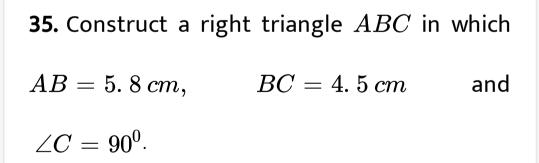
length $5\ cm$ and one side of length $4\ cm$.



33. Draw a right triangle whose hypotenuse is of length 4 cm and one side is of length 2. 5 cm.

34. Draw a right triangle having hypotenuse of length 5. 4 cm, and one of the acute angles of measure 30^{0} .





36. Construct a right triangle, right angled at C in which $AB = 5.2 \setminus cm$ and $BC = 4.6 \ cm$.