

Worksheet 3-10 Constructions in words

Use geometrical instruments to construct each of the following figures from its description. Make a rough sketch on a sheet of paper first.

- 1 Construct $\triangle ABC$, where $a = 4$ cm, $c = 3.5$ cm and $\angle B = 90^\circ$.
- 2 Construct the quadrilateral $PQRS$, where $PQ = 5$ cm, $PS = 6$ cm, $\angle SPQ = 100^\circ$, $\angle PSR = 85^\circ$ and $\angle PQR = 60^\circ$.
- 3 Construct the isosceles trapezium $FGHI$, where $FG \parallel IH$, $FG = 8$ cm, $GH = 3$ cm, $\angle IFG = \angle FGH = 55^\circ$.
- 4 Construct the isosceles triangle $\triangle XYZ$, where $XY = 5$ cm and $XZ = YZ = 4$ cm.
- 5 Construct $\triangle JKL$, where $j = 53$ mm, $\angle L = 115^\circ$ and $\angle K = 20^\circ$.
- 6 Construct the quadrilateral $TUVW$, where $TU = 35$ mm, $UV = 27$ mm, $WV = 60$ mm, $TW = 49$ mm and $\angle TWV = 66^\circ$.