Geometric constructions I

In each of the following boxes, draw the geometric constructions described in the text.

Isosceles triangle with a base measuring 6 cm and two equal legs measuring 8 cm each.

A rhomboid with a 5 cm and a 3 cm side and a 30° angle.

A square measuring 5 cm on each side.

Name

Course

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Geometric constructions I

In each of the following boxes, draw the geometric constructions described in the text.

An equilateral triangle inside a circle with a radius of 4 cm.

A regular hexagon measuring 4 cm on each side.

Name

Course

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Geometric constructions II

In each of the following boxes, draw the geometric constructions described.

Drawing a bisector on a segment 5 cm in length.

1. Draw the segment *AB*.
2. Centre the compass on *A* and open it so that it is wider than half the segment and then draw an arc. With the compass open to the same angle, centre it on *B* and draw a second arc that crosses the first one at points 1 and 2.
3. Draw a straight line that passes through points 1 and 2.

Drawing a bisector with a 48° angle.

1. Using the angle $\measuredangle AOB$ given and centring the compass on *O*, open to any angle, draw an arc that crosses the sides of the angle at points 1 and 2.
2. With the compass centred on points 1 and 2, draw both arcs to cross at point 3.
3. The ray that joins point *O* to point 3 divides the angle into two equal parts and is called a bisector.

Dividing a 7 cm segment into six equal parts.

1. Using a 7 cm segment, from endpoint *A* draw a ray with any angle.
2. Mark equally spaced points (this can be done with a ruler or compass) on the ray. Join point 6 to endpoint *B* of the segment.
3. Using your set squares, draw lines parallel to segment *6B* passing through points 1, 2, 3, 4 and 5.

Name

Course

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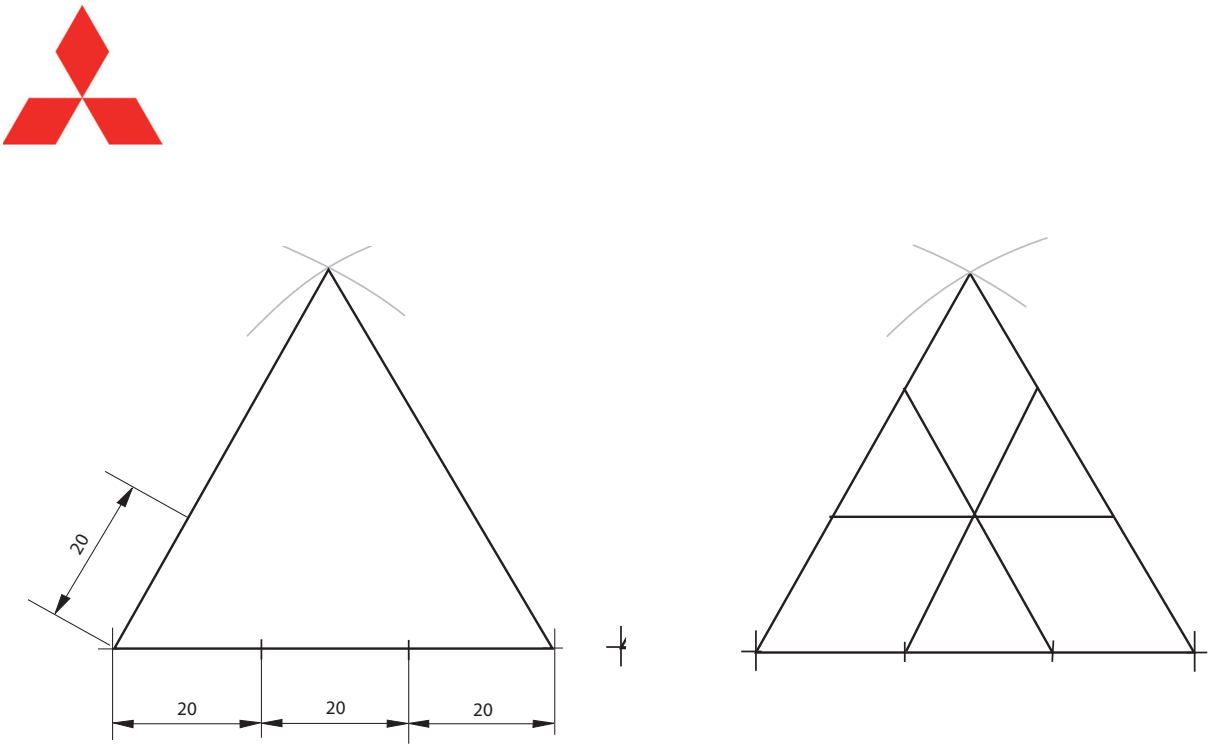
Logos

Draw the logo shown in the figure in the box below.



Name

Course

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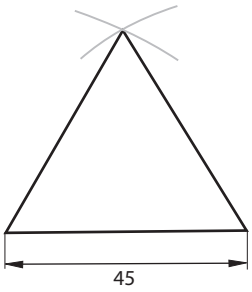
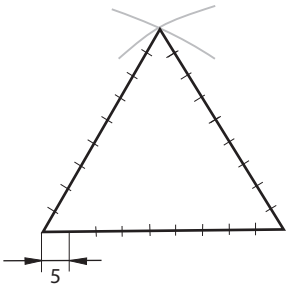
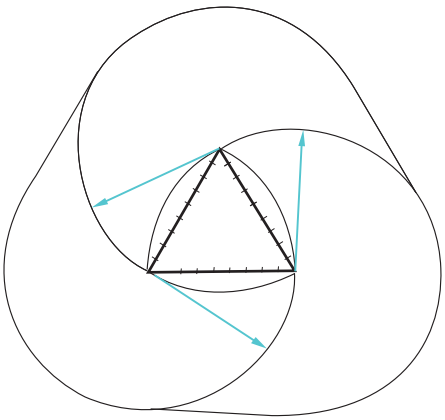
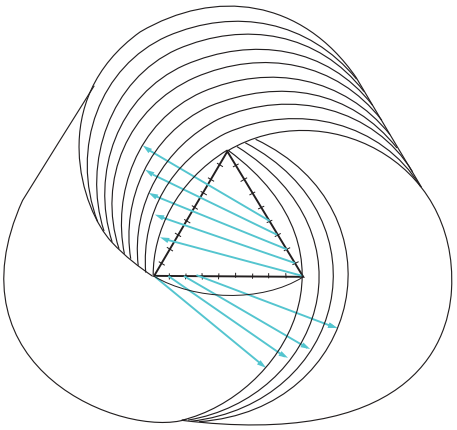
Logos

Draw the logo shown in the figure on the next page.









Name

Course

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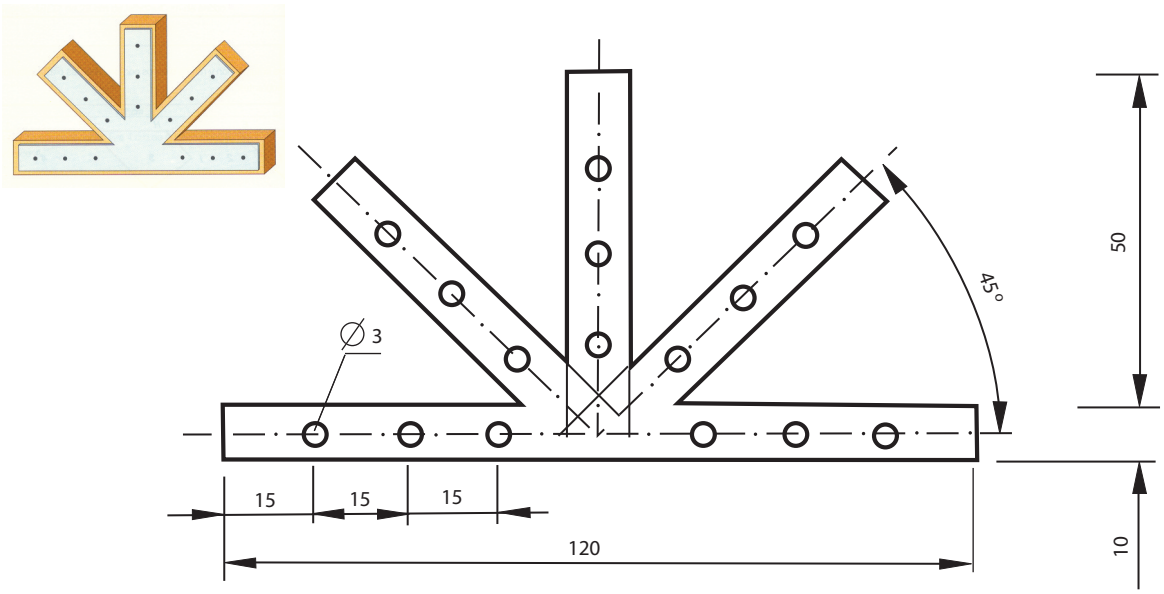
Rafter square

Draw the square in the figure with the same measurements as the one shown.



Name

Course

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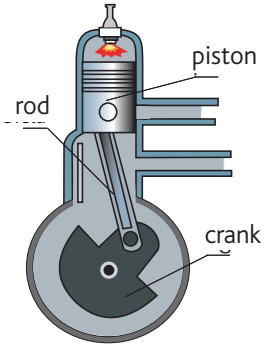
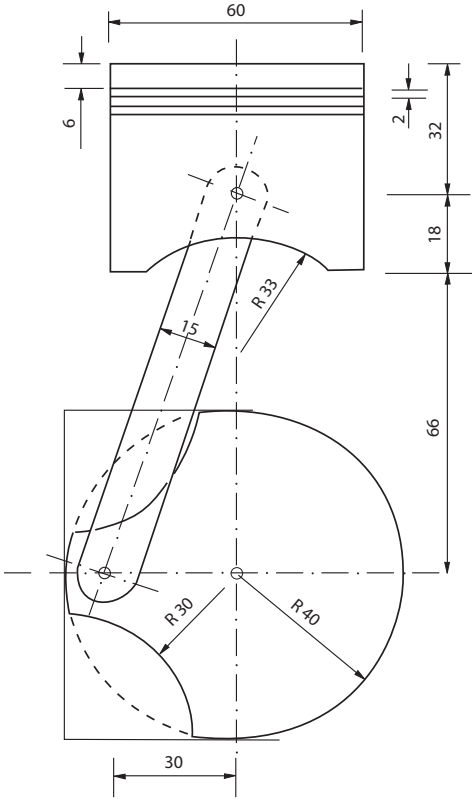
Piston, rod and crank set

Draw the piston, rod and crank set with the same measurements as the one shown.





Name

Course

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