Outcome 1 – Drawing Triangles

Bronze example

Example…
** Two sides and included angle **

Make an accurate drawing of triangle ABC.

- Draw the line AB = 9 cm.
- Put your protractor at A and mark an angle of 40°.
- Draw a line through 'X' , ensuring it is 8 cm long.
- Join C to B.

Silver example

Example…   ** Two angles and a side **

Make an accurate drawing of triangle ABC.

- Draw the line AB = 10 cm.
- Put your protractor at A and mark an angle of 50°.
- Draw a line from A through 'X'.
- Now put your protractor at B and mark an angle of 60°.
- Draw a line through the 2ⁿᵈ 'X'.

Gold example

Example…   ** Three Sides **

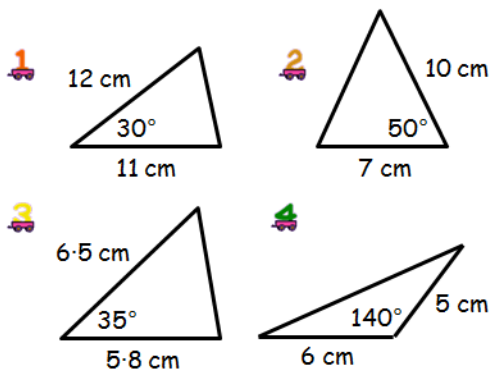Make an accurate drawing of triangle ABC.

- Draw the line AB = 10 cm.
- Set your compasses to 8 cm, place on B and draw a faint arc.
- Now set your compasses to 9 cm, place on A and draw a second faint arc.
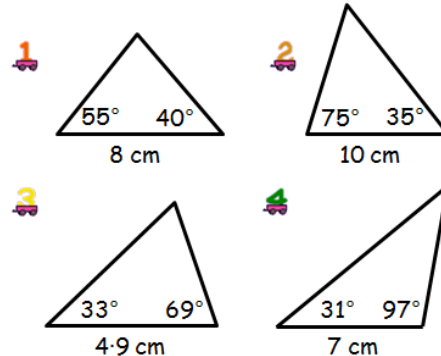- Now join A to C and B to C.

Bronze Questions

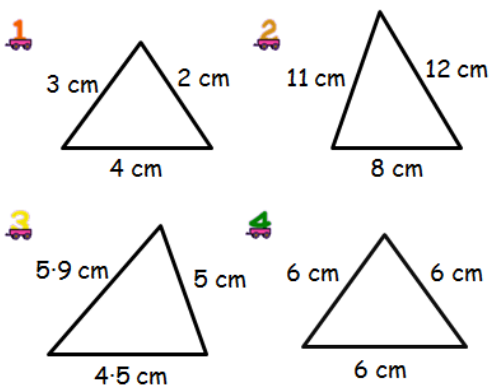Make accurate drawings of the following triangles…

1. 12 cm, 30°, 11 cm
2. 10 cm, 50°, 7 cm
3. 6·5 cm, 35°, 5·8 cm
4. 5 cm, 140°, 6 cm

Silver Questions

Make accurate drawings of the following triangles…

1. 55° 40°, 8 cm
2. 75° 35°, 10 cm
3. 33° 69°, 4·9 cm
4. 31° 97°, 7 cm

Gold Questions

Make accurate drawings of the following triangles…

1. 3 cm, 2 cm, 4 cm
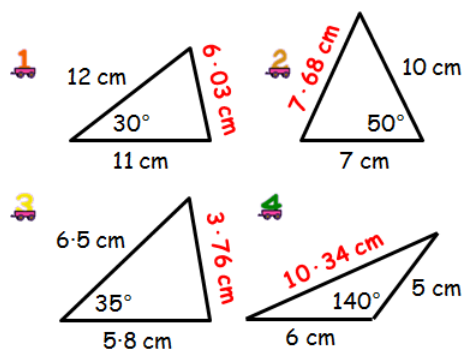2. 11 cm, 12 cm, 8 cm
3. 5·9 cm, 5 cm, 4·5 cm
4. 6 cm, 6 cm, 6 cm

For this exercise you will need…

1. A ruler
2. A pencil
3. A protractor
4. A set of compasses

Bronze Answers

Measure the following lines to check your drawing accuracy…

1. 12 cm 6·03 cm 30° 11 cm

2. 7·68 cm 10 cm 50° 7 cm

3. 6·5 cm 3·76 cm 35° 5·8 cm

4. 10·34 cm 140° 5 cm 6 cm

Silver Answers

Measure the following lines to check your drawing accuracy…

1. 6·58 cm 55° 40° 8 cm

2. 10·28 cm 75° 35° 10 cm

3. 4·68 cm 33° 69° 4·9 cm

4. 8·82 cm 31° 97° 7 cm
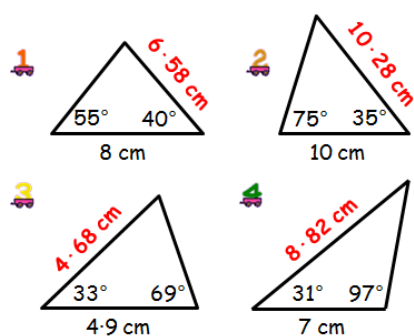
Gold Answers

Measure the following angles to check your drawing accuracy…

1. 3 cm 2 cm 29·0° 4 cm

2. 11 cm 12 cm 76·5° 8 cm

3. 5·9 cm 5 cm 55·5° 4·5 cm

4. 6 cm 6 cm 60° 6 cm