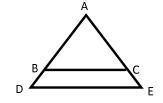
## Similar Triangle and Trig Review

## Textbook: practice tests on page 390 & page 432 and...

1. Find the lengths to the nearest tenth, for CE and BC, given that DE is 18 m, AB is 14 m, BD is 1 m, AC is 12 m. Also BC  $\mid \mid$  DE.



- 2. Ryan and Alec are using an overhead projector to enlarge a design that they are tracing on a wall to draw a mural. When they place the projector 2 m from the wall, the image is 0.75 m high. They want the image to be 2 m high. Where should they place the projector?
- 3. Find angle C in ΔABC, if angle B is 27°, b is 15 cm and c is 8 cm.
- 4. In ΔMNP, angle M is 67°, angle N is 32° and n is 15 cm. Find m.
- 5. In  $\Delta DEF$ , angle D is 68°, e is 6.2 cm and f is 3.2 cm. Solve  $\Delta DEF$ .
- 6. In  $\triangle PQR$ , angle P is 83°, angle Q is 45° and r is 18 cm. Solve  $\triangle PQR$ .
- 7. A sail is in the shape of a triangle with sides of 10 m, 7 m and 13 m. Find the largest angle of the sail.
- 8. Rachel and Riley went out in two separate boats to place markers for a boat race. Their paths formed an angle of 85°. Rachel rowed 85 m and Riley rowed 102 m to place their markers. How far apart are the markers?

## Answers:

5. 
$$d = 5.8 cm$$

$$F = 30.7^{\circ}$$

6. 
$$R = 52^{\circ}$$

$$p = 22.7 cm$$

$$q = 16.2 cm$$