Chapter 2 Practice Test

For #1 to #4, circle the best answer.

1. 473 cm is equivalent to

   A 47.3 mm   B 47.3 m

   C 0.473 km   D 4.73 m

2. On a 25 : 1 scale drawing, 1 cm on the drawing represents _____ on the object.

   A 25 cm   B 25 mm

   C 4 mm   D 0.4 mm

3. On a 1 : 25 scale drawing, 1 cm on the drawing represents _____ on the object.

   A 25 cm   B 25 mm

   C 4 mm   D 0.4 mm

4. Which statement is true?

   A In similar triangles, all angles are equal.

   B In similar triangles, all sides are equal.

   C In similar triangles, corresponding sides are equal.

   D In similar triangles, corresponding angles are equal.

5. a) In what SI units would you measure the distance from the floor to the bottom of the windows in your classroom? Explain why you chose those units.
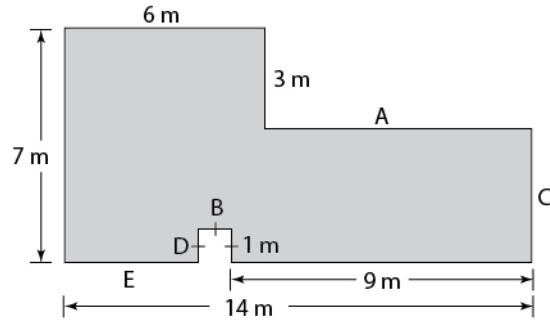
   b) What personal referent could you use to make the measurement?

   c) Estimate the distance from the floor to the bottom of the windows.

6. A floor plan of a building is shown. Determine the length of sides A, B, C, and D. The floor plan is not drawn to scale.

A = _____

B = _____

C = _____

D = _____

6 m
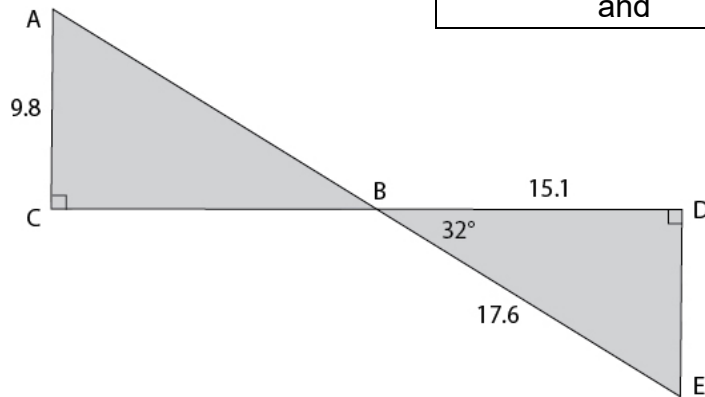
3 m

A

7 m

B

D┤ ├1 m

E

9 m

14 m

C

7. Use the cm grid below to create a 1 : 200 scale drawing of the floor plan shown in #6 (the dimensions shown above are the actual dimension).

8. a) List the corresponding sides and the corresponding angles in the diagram below.

Corresponding Angles	Corresponding Sides
and	and
and	and
and	and

A

9.8

B   15.1

C   D

32°

17.6

E

b) Determine all unknown side measurements to the nearest tenth and determine all unknown angles.

side AB = _____

side BC = _____

side DE = _____

angle A = _____

angle E = _____

angle ABC = _____

9. A telephone pole casts a 4.5 m shadow. At the same time, Sarah, who stands 1.6 m tall casts a shadow measuring 66 cm. To the nearest metre, how tall is the telephone pole? (Hint: Draw a diagram to show the situation AND convert all measurements to the same units).

10. QS is parallel to PT. Determine the length of RS to the nearest tenth.