Name:	Date:

Learning Goal 7.2	I can determine the scale factor of an enlargement or reduction and use it to reduce or enlarge an image.
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1. A person is 1.9 metres tall. An action figure is built to a scale factor of $^1/_{12}$ th. How tall is the action figure?

0.16 m = 16 cm

2. The side length of rectangle A is 3 metres. If the scale factor from A to B is 4, how long is the side length on rectangle B?

12 m

3. A scale drawing of a truck is drawn to a scale factor of $^1/_{10}$ th. How long is the actual truck if the scale drawing is 14 cm?

112 cm

4. A new cell phone is 10 cm long. To show all of its features it has been pictured on a poster using a scale factor of 12. How long is the phone, in metres, on the poster?

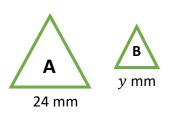
1.2 m

5. Find the missing side length if the scale factor from A to B is 8.

x = 32 cmA 4 cm x cm

6. Find the missing side length if the scale factor from A to B is $^1\!/_3$.

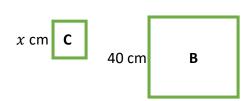
y = 8 mm



7. Find the missing length if the scale factor from B to C is 1.5.

Z m

8. Find the missing length of the scale factor from B to C is $\frac{1}{5}$.



Quiz: Next Day!

z = 2 m

x = 8 cm

p. 323 #4 - 8, 11, 12, 15 p. 329 #1, 3, 4 - 8, 20

Sections 7.1 and 7.2 Scale Diagrams, Enlargements and Reductions

- 9. A horse stands 3.5 metres tall. A toy model of the horse is 7 cm tall. What is the scale factor?
 - 0.02
- 10. The side length of Triangle D is 6mm. The corresponding side length of Triangle F is 24 cm. What is the scale factor from D to F?

40

11. A model train car is 3 cm long. An actual train car is 10 m long. What is the scale factor?

0.003

12. The original picture from Keara's birthday party was 10 cm wide by 15 cm long. She had her picture made into a poster for her room that was 30 cm wide and 45 cm long. What is the scale factor?

3