

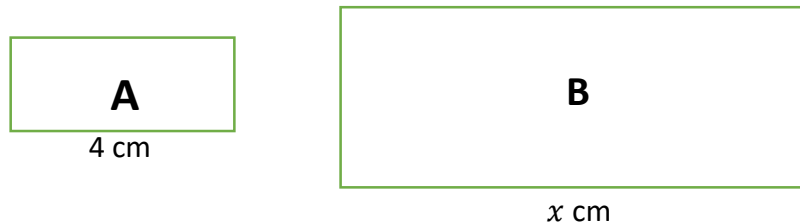
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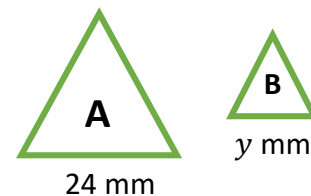
Learning Goal 7.2

I can determine the scale factor of an enlargement or reduction and use it to reduce or enlarge an image.

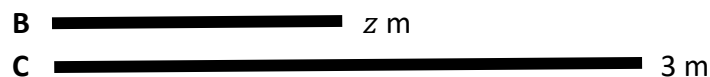
1. A person is 1.9 metres tall. An action figure is built to a scale factor of $\frac{1}{12}^{\text{th}}$. How tall is the action figure?
2. The side length of rectangle A is 3 metres. If the scale factor from A to B is 4, how long is the side length on rectangle B?
3. A scale drawing of a truck is drawn to a scale factor of $\frac{1}{8}^{\text{th}}$. How long is the actual truck if the scale drawing is 14 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?
5. Find the missing side length if the scale factor from A to B is 8.



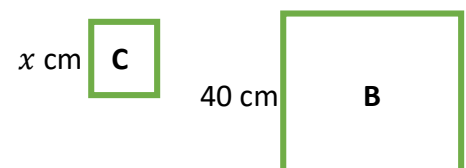
6. Find the missing side length if the scale factor from A to B is $\frac{1}{3}$.



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



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



9. A horse stands 3.5 metres tall. A toy model of the horse is 7 cm tall. What is the scale factor?
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?
11. A model train car is 3 cm long. An actual train car is 10 m long. What is the scale factor?
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?