



Name _____ Class _____ Date _____

1 A map has a scale of **1.5 in. = 15 miles**. If two cities are **9 in.** apart on the map, how many **miles apart** are they?

- A 90 miles
- B 95 miles
- C 135 miles
- D 142.5 miles

2 An interior designer uses a scale of **1 in. = 2 ft**. She makes a scale drawing for her customer with a couch that is **4.75 in.** long. How long is the real couch?

- A 7.6 ft
- B 9.5 ft
- C 19 ft
- D 38 ft



3 A map has a scale of **2 in. = 37.5 km**. If two cities are **450 km** apart, how far apart would they be on the map?

- A 6 in.
- B 12 in.
- C 18 in.
- D 24 in.

4 A model dinosaur is **6 ft** tall. The scale used to make the model is **1 ft = 7.5 ft**. How tall was the real dinosaur?

- A 42 ft
- B 45 ft
- C 46.5 ft
- D 48 ft



5



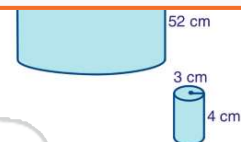
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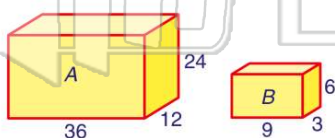
- A 17.5 cm
- B 25 cm
- C 35 cm
- D 49 cm

- B 36 cm
- C 39 cm
- D 42 cm



9 What is the **scale factor** of solid **A** to solid **B**?

- A 3
- B 4
- C 1/3
- D 1/4



10 Two similar solids have a scale factor of **8**. The ratio of their **surface areas** is **16**.

True or false?

- A true
- B false



ANSWER KEY

A map has a scale of **1.5 in. = 15 miles**. If two cities are **9 in.** apart on the map, how many **miles apart** are they?

- A 90 miles
- B 95 miles
- C 135 miles
- D 142.5 miles

(a)

An interior designer uses a scale of **1 in. = 2 ft**. She makes a scale drawing for her customer with a couch that is **4.75 in.** long. **How long is the real couch?**

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- B 9.5 ft
- C 19 ft
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(b)



A map has a scale of **2 in. = 37.5 km**. If two cities are **450 km** apart, how far apart would they be on the map?

- A 6 in.
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- D 24 in.

(d)

A model dinosaur is **6 ft** tall. The scale used to make the model is **1 ft = 7.5 ft**. **How tall was the real dinosaur?**

- A 42 ft
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- C 46.5 ft
- D 48 ft

(b)

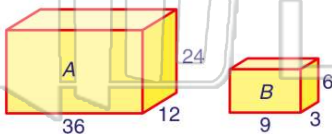


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What is the **scale factor** of solid **A** to solid **B**?

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- C 1/3
- D 1/4



(b)

Two similar solids have a scale factor of **8**. The ratio of their **surface areas** is **16**.

True or false?

- A true
- B false

(b)

