Similarity and scale

Math

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.

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?

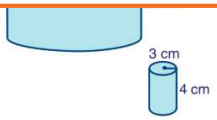
A 42 ft

5

7

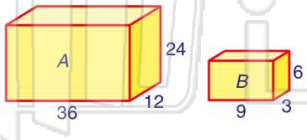
B 25 cm
C 35 cm
D 49 cm

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

Similarity and scale

Math

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

A

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

B

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.

D

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

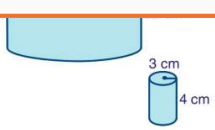
5

D

7

B 25 cm
C 35 cm
D 49 cm

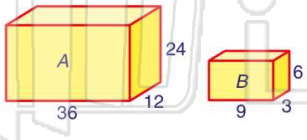
C 39 cm
D 42 cm



C

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

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



B

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

B