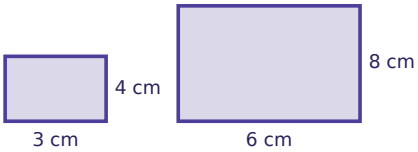
Scaled Copies: Scale Factor, Angles & Area · 1

A rectangle is 3 cm by 4 cm. A scaled copy is 6 cm by 8 cm. What is the scale factor?



Scaled Copies: Scale Factor, Angles & Area · 2

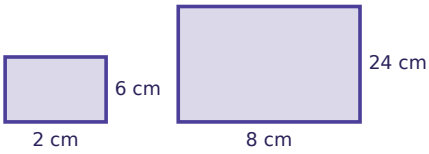
Is an 8 cm by 16 cm rectangle a scaled copy of a 2 cm by 4 cm rectangle? Write yes or no.

Scaled Copies: Scale Factor, Angles & Area · 3

A rectangle is 6 cm by 8 cm. A scaled copy is 3 cm by 4 cm. What is the scale factor?

Scaled Copies: Scale Factor, Angles & Area · 4

A rectangle is 2 cm by 6 cm. A scaled copy is 8 cm by 24 cm. What is the scale factor?



Scaled Copies: Scale Factor, Angles & Area · 5

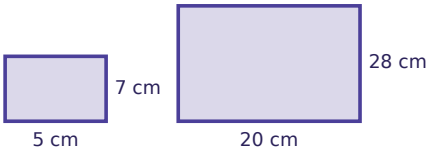
A rectangle is 8 cm by 10 cm. A scaled copy is 4 cm by 5 cm. What is the scale factor?

Scaled Copies: Scale Factor, Angles & Area · 6

One angle of a figure measures 45°. The figure is copied with scale factor 4. What does the matching angle in the copy measure, in degrees?

Scaled Copies: Scale Factor, Angles & Area · 7

A rectangle is 5 cm by 7 cm. A scaled copy is 20 cm by 28 cm. What is the scale factor?



Scaled Copies: Scale Factor, Angles & Area · 8

A triangle has sides 6 cm, 10 cm and 6 cm. It is copied with scale factor $\frac{1}{2}$. How long is the copy of the 6 cm side, in cm?

Scaled Copies: Scale Factor, Angles & Area · 2

ANSWER

yes

Scaled Copies: Scale Factor, Angles & Area · 1

ANSWER

2

Scaled Copies: Scale Factor, Angles & Area · 4

ANSWER

4

Scaled Copies: Scale Factor, Angles & Area · 3

ANSWER

$\frac{1}{2}$

Scaled Copies: Scale Factor, Angles & Area · 6

ANSWER

45

Scaled Copies: Scale Factor, Angles & Area · 5

ANSWER

$\frac{1}{2}$

Scaled Copies: Scale Factor, Angles & Area · 8

ANSWER

3

Scaled Copies: Scale Factor, Angles & Area · 7

ANSWER

4

Scaled Copies: Scale Factor, Angles & Area · 9

A triangle has sides 6 cm, 5 cm and 4 cm. It is copied with scale factor 3. How long is the copy of the 4 cm side, in cm?

Scaled Copies: Scale Factor, Angles & Area · 10

Is a 1 cm by 3 cm rectangle a scaled copy of a 4 cm by 6 cm rectangle? Write yes or no.

Scaled Copies: Scale Factor, Angles & Area · 11

One angle of a figure measures 20°. The figure is copied with scale factor 4. What does the matching angle in the copy measure, in degrees?

Scaled Copies: Scale Factor, Angles & Area · 12

One angle of a figure measures 40°. The figure is copied with scale factor 2. What does the matching angle in the copy measure, in degrees?

Scaled Copies: Scale Factor, Angles & Area · 13

One angle of a figure measures 50°. The figure is copied with scale factor 2. What does the matching angle in the copy measure, in degrees?

Scaled Copies: Scale Factor, Angles & Area · 14

A triangle has sides 4 cm, 2 cm and 4 cm. It is copied with scale factor 2. How long is the copy of the 4 cm side, in cm?

Scaled Copies: Scale Factor, Angles & Area · 15

Is a 4 cm by 12 cm rectangle a scaled copy of a 2 cm by 6 cm rectangle? Write yes or no.

Scaled Copies: Scale Factor, Angles & Area · 16

Is a 2 cm by 5 cm rectangle a scaled copy of a 4 cm by 10 cm rectangle? Write yes or no.

Scaled Copies: Scale Factor, Angles & Area · 10

ANSWER

no

Scaled Copies: Scale Factor, Angles & Area · 9

ANSWER

12

Scaled Copies: Scale Factor, Angles & Area · 12

ANSWER

40

Scaled Copies: Scale Factor, Angles & Area · 11

ANSWER

20

Scaled Copies: Scale Factor, Angles & Area · 14

ANSWER

8

Scaled Copies: Scale Factor, Angles & Area · 13

ANSWER

50

Scaled Copies: Scale Factor, Angles & Area · 16

ANSWER

yes

Scaled Copies: Scale Factor, Angles & Area · 15

ANSWER

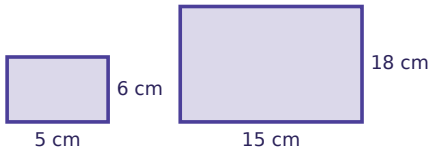
yes

A figure has an area of 24 square cm. What is the area of a scaled copy made with scale factor 3, in square cm?

A triangle has sides 4 cm, 8 cm and 6 cm. It is copied with scale factor 4. How long is the copy of the 6 cm side, in cm?

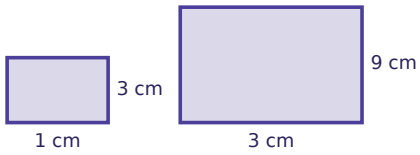
On a map, 1 cm represents 25 km. Two towns are 10 cm apart on the map. How far apart are they in real life, in km?

A rectangle is 5 cm by 6 cm. A scaled copy is 15 cm by 18 cm. What is the scale factor?



A triangle has sides 1 cm, 6 cm and 6 cm. It is copied with scale factor 2. How long is the copy of the 6 cm side, in cm?

A rectangle is 1 cm by 3 cm. A scaled copy is 3 cm by 9 cm. What is the scale factor?



On a map, 1 cm represents 25 km. Two towns are 9 cm apart on the map. How far apart are they in real life, in km?

One angle of a figure measures 70°. The figure is copied with scale factor $\frac{1}{2}$. What does the matching angle in the copy measure, in degrees?

Scaled Copies: Scale Factor, Angles & Area · 18

ANSWER

24

Scaled Copies: Scale Factor, Angles & Area · 17

ANSWER

216

Scaled Copies: Scale Factor, Angles & Area · 20

ANSWER

3

Scaled Copies: Scale Factor, Angles & Area · 19

ANSWER

250

Scaled Copies: Scale Factor, Angles & Area · 22

ANSWER

3

Scaled Copies: Scale Factor, Angles & Area · 21

ANSWER

12

Scaled Copies: Scale Factor, Angles & Area · 24

ANSWER

70

Scaled Copies: Scale Factor, Angles & Area · 23

ANSWER

225