Dilations & Scale Factor · 1

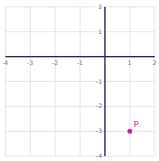
A dilation maps P(6, 6) to P'(3, 3). What is the scale factor?

Dilations & Scale Factor · 2

A figure is dilated by a scale factor of $\frac{1}{3}$. The area of the image is how many times the area of the original? (Write a whole number or fraction.)

Dilations & Scale Factor · 3

Dilate P(1, -3) by a scale factor of 3. What are the coordinates of P'?



Dilations & Scale Factor · 4

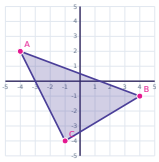
A dilation maps P(-2, -4) to P'(-6, -12). What is the scale factor?

Dilations & Scale Factor · 5

A figure is dilated by a scale factor of $\frac{3}{2}$. The area of the image is how many times the area of the original? (Write a whole number or fraction.)

Dilations & Scale Factor · 6

Triangle ABC is dilated by a scale factor of 4. What are the coordinates of A'?



Dilations & Scale Factor · 7

A dilation maps P(4, -1) to P'(8, -2). What is the scale factor?

Dilations & Scale Factor · 8

A figure is dilated by a scale factor of $\frac{5}{2}$. The area of the image is how many times the area of the original? (Write a whole number or fraction.)

Dilations & Scale Factor · 2

ANSWER

$\frac{1}{9}$

Dilations & Scale Factor · 1

ANSWER

$\frac{1}{2}$

Dilations & Scale Factor · 4

ANSWER

3

Dilations & Scale Factor · 3

ANSWER

(3, -9)

Dilations & Scale Factor · 6

ANSWER

(-16, 8)

Dilations & Scale Factor · 5

ANSWER

$\frac{9}{4}$

Dilations & Scale Factor · 8

ANSWER

$\frac{25}{4}$

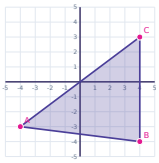
Dilations & Scale Factor · 7

ANSWER

2

Dilations & Scale Factor · 9

Triangle ABC is dilated by a scale factor of 2. What are the coordinates of B'?



Dilations & Scale Factor · 10

A dilation maps P(12, -6) to P'(8, -4). What is the scale factor?

Dilations & Scale Factor · 11

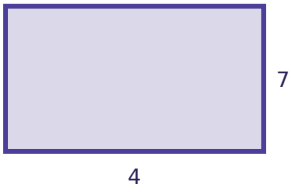
A figure is dilated by a scale factor of 4. The area of the image is how many times the area of the original? (Write a whole number or fraction.)

Dilations & Scale Factor · 12

A dilation maps P(-3, -3) to P'(-9, -9). What is the scale factor?

Dilations & Scale Factor · 13

A rectangle is 4 units long and 7 units wide. It is dilated by a scale factor of 2. How long is the longer side of the image?



Dilations & Scale Factor · 14

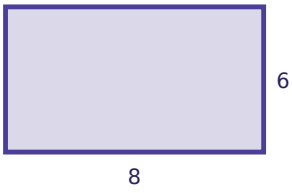
A dilation maps P(12, 16) to P'(3, 4). What is the scale factor?

Dilations & Scale Factor · 15

A dilation maps P(8, 8) to P'(20, 20). What is the scale factor?

Dilations & Scale Factor · 16

A rectangle is 8 units long and 6 units wide. It is dilated by a scale factor of 3. How long is the longer side of the image?



Dilations & Scale Factor · 10

ANSWER

$\frac{2}{3}$

Dilations & Scale Factor · 9

ANSWER

(8, -8)

Dilations & Scale Factor · 12

ANSWER

3

Dilations & Scale Factor · 11

ANSWER

16

Dilations & Scale Factor · 14

ANSWER

$\frac{1}{4}$

Dilations & Scale Factor · 13

ANSWER

14

Dilations & Scale Factor · 16

ANSWER

24

Dilations & Scale Factor · 15

ANSWER

$\frac{5}{2}$

Dilations & Scale Factor · 17

A dilation maps P(8, -4) to P'(2, -1). What is the scale factor?

Dilations & Scale Factor · 18

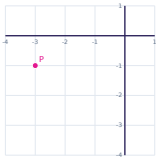
A dilation maps P(-4, -6) to P'(-10, -15). What is the scale factor?

Dilations & Scale Factor · 19

A figure is dilated by a scale factor of 3. The area of the image is how many times the area of the original? (Write a whole number or fraction.)

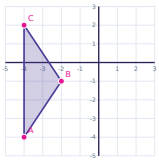
Dilations & Scale Factor · 20

Dilate P(-3, -1) by a scale factor of 4. What are the coordinates of P'?



Dilations & Scale Factor · 21

Triangle ABC is dilated by a scale factor of 3. What are the coordinates of C'?

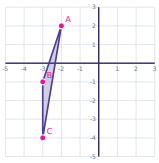


Dilations & Scale Factor · 22

A dilation maps P(8, -8) to P'(12, -12). What is the scale factor?

Dilations & Scale Factor · 23

Triangle ABC is dilated by a scale factor of 4. What are the coordinates of B'?



Dilations & Scale Factor · 24

A dilation maps P(8, -8) to P'(2, -2). What is the scale factor?

Dilations & Scale Factor · 18

ANSWER

$\frac{5}{2}$

Dilations & Scale Factor · 17

ANSWER

$\frac{1}{4}$

Dilations & Scale Factor · 20

ANSWER

(-12, -4)

Dilations & Scale Factor · 19

ANSWER

9

Dilations & Scale Factor · 22

ANSWER

$\frac{3}{2}$

Dilations & Scale Factor · 21

ANSWER

(-12, 6)

Dilations & Scale Factor · 24

ANSWER

$\frac{1}{4}$

Dilations & Scale Factor · 23

ANSWER

(-12, -4)