Task card 1 Dilations & Scale Factor

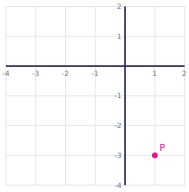
A dilation maps P(6, 6) to P'(3, 3). What is the scale factor?

Task card 2 Dilations & Scale Factor

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.)

Task card 3 Dilations & Scale Factor

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



Task card 4 Dilations & Scale Factor

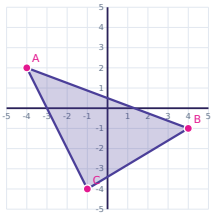
A dilation maps P(-2, -4) to P'(-6, -12). What is the scale factor?

Task card 5 Dilations & Scale Factor

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.)

Task card 6 Dilations & Scale Factor

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



Task card 7 Dilations & Scale Factor

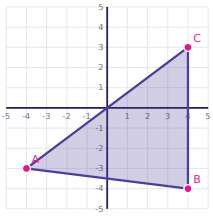
A dilation maps P(4, -1) to P'(8, -2). What is the scale factor?

Task card 8 Dilations & Scale Factor

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.)

Task card 9 Dilations & Scale Factor

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



Task card 10 Dilations & Scale Factor

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

Task card 11 Dilations & Scale Factor

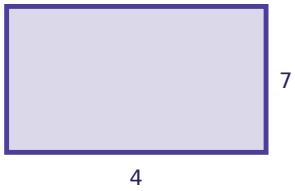
A figure is dilated by a scale factor of 4. The area of the image is how many times the area of the original? (Write a whole number or fraction.)

Task card 12 Dilations & Scale Factor

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

Task card 13 Dilations & Scale Factor

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?



Task card 14 Dilations & Scale Factor

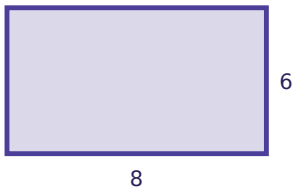
A dilation maps P(12, 16) to P'(3, 4). What is the scale factor?

Task card 15 Dilations & Scale Factor

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

Task card 16 Dilations & Scale Factor

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?



Task card 17 Dilations & Scale Factor

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

Task card 18 Dilations & Scale Factor

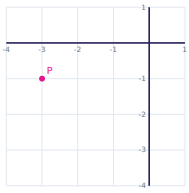
A dilation maps P(-4, -6) to P'(-10, -15). What is the scale factor?

Task card 19 Dilations & Scale Factor

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.)

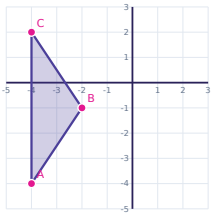
Task card 20 Dilations & Scale Factor

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



Task card 21 Dilations & Scale Factor

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

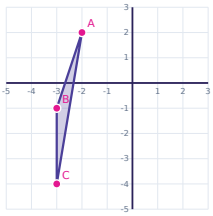


Task card 22 Dilations & Scale Factor

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

Task card 23 Dilations & Scale Factor

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



Task card 24 Dilations & Scale Factor

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

Dilations & Scale Factor Task Cards

Recording sheet · Grade 8 · All dilations are centered at the origin. Write points as (x, y) and scale factors as whole numbers or fractions.

Name: _____ Date: _____

Scan to check your answers

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Dilations & Scale Factor Task Cards: Answer Key

Grade 8 · Hard

The answers online

1. $\frac{1}{2}$	**2.** $\frac{1}{9}$	**3.** (3, -9)
4. 3	**5.** $\frac{9}{4}$	**6.** (-16, 8)
7. 2	**8.** $\frac{25}{4}$	**9.** (8, -8)
10. $\frac{2}{3}$	**11.** 16	**12.** 3
13. 14	**14.** $\frac{1}{4}$	**15.** $\frac{5}{2}$
16. 24	**17.** $\frac{1}{4}$	**18.** $\frac{5}{2}$
19. 9	**20.** (-12, -4)	**21.** (-12, 6)
22. $\frac{3}{2}$	**23.** (-12, -4)	**24.** $\frac{1}{4}$