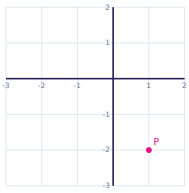
Task card 1 Dilations & Scale Factor

Dilate P(1, -2) by a scale factor of 2. What are the coordinates of P'?



Task card 2 Dilations & Scale Factor

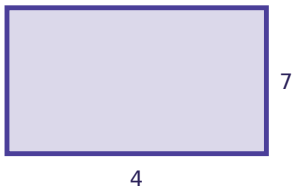
A dilation maps P(-4, 2) to P'(-12, 6). What is the scale factor?

Task card 3 Dilations & Scale Factor

A dilation maps P(-1, 4) to P'(-3, 12). What is the scale factor?

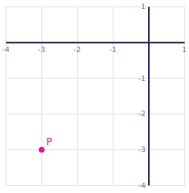
Task card 4 Dilations & Scale Factor

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



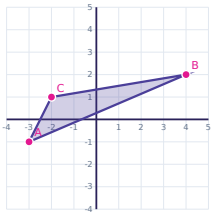
Task card 5 Dilations & Scale Factor

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



Task card 6 Dilations & Scale Factor

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

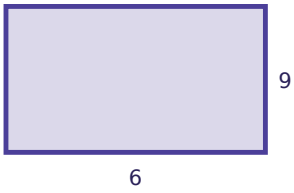


Task card 7 Dilations & Scale Factor

A dilation maps P(6, -4) to P'(3, -2). What is the scale factor?

Task card 8 Dilations & Scale Factor

A rectangle is 6 units long and 9 units wide. It is dilated by a scale factor of 4. How long is the longer side of the image?

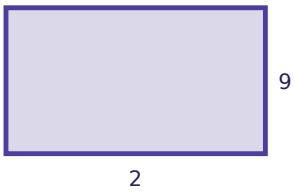


Task card 9 Dilations & Scale Factor

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

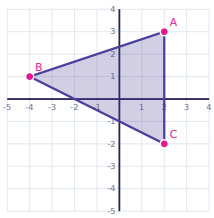
Task card 10 Dilations & Scale Factor

A rectangle is 2 units long and 9 units wide. It is dilated by a scale factor of 4. How long is the longer side of the image?



Task card 11 Dilations & Scale Factor

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



Task card 12 Dilations & Scale Factor

A dilation maps P(-2, -1) to P'(-6, -3). What is the scale factor?

Task card 13 Dilations & Scale Factor

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

Task card 14 Dilations & Scale Factor

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

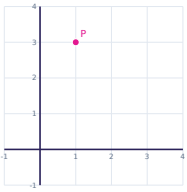
Task card 15 Dilations & Scale Factor

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.)

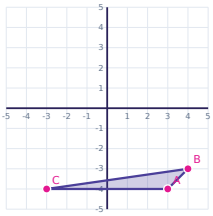
Task card 16 Dilations & Scale Factor

Dilate P(1, 3) by a scale factor of 2. What are the coordinates of P'?



Task card 17 Dilations & Scale Factor

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

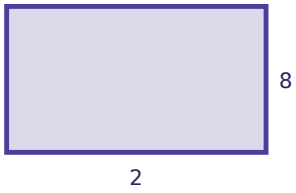


Task card 18 Dilations & Scale Factor

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

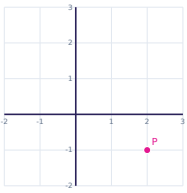
Task card 19 Dilations & Scale Factor

A rectangle is 2 units long and 8 units wide. It is dilated by a scale factor of 3. How long is the longer side of the image?



Task card 20 Dilations & Scale Factor

Dilate P(2, -1) by a scale factor of 2. What are the coordinates of P'?

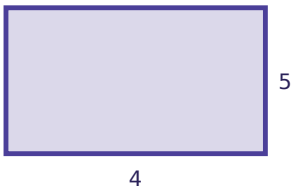


Task card 21 Dilations & Scale Factor

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

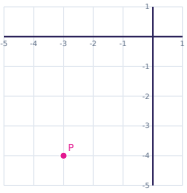
Task card 22 Dilations & Scale Factor

A rectangle is 4 units long and 5 units wide. It is dilated by a scale factor of 4. How long is the longer side of the image?



Task card 23 Dilations & Scale Factor

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



Task card 24 Dilations & Scale Factor

A dilation maps P(-3, 1) to P'(-9, 3). 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 · Medium

The answers online

1. (2, -4)	**2.** 3	**3.** 3
4. 28	**5.** (-9, -9)	**6.** (-9, -3)
7. $\frac{1}{2}$	**8.** 36	**9.** 4
10. 36	**11.** (8, -8)	**12.** 3
13. 4	**14.** $\frac{5}{2}$	**15.** $\frac{1}{9}$
16. (2, 6)	**17.** (12, -16)	**18.** $\frac{1}{2}$
19. 24	**20.** (4, -2)	**21.** $\frac{1}{2}$
22. 20	**23.** (-9, -12)	**24.** 3