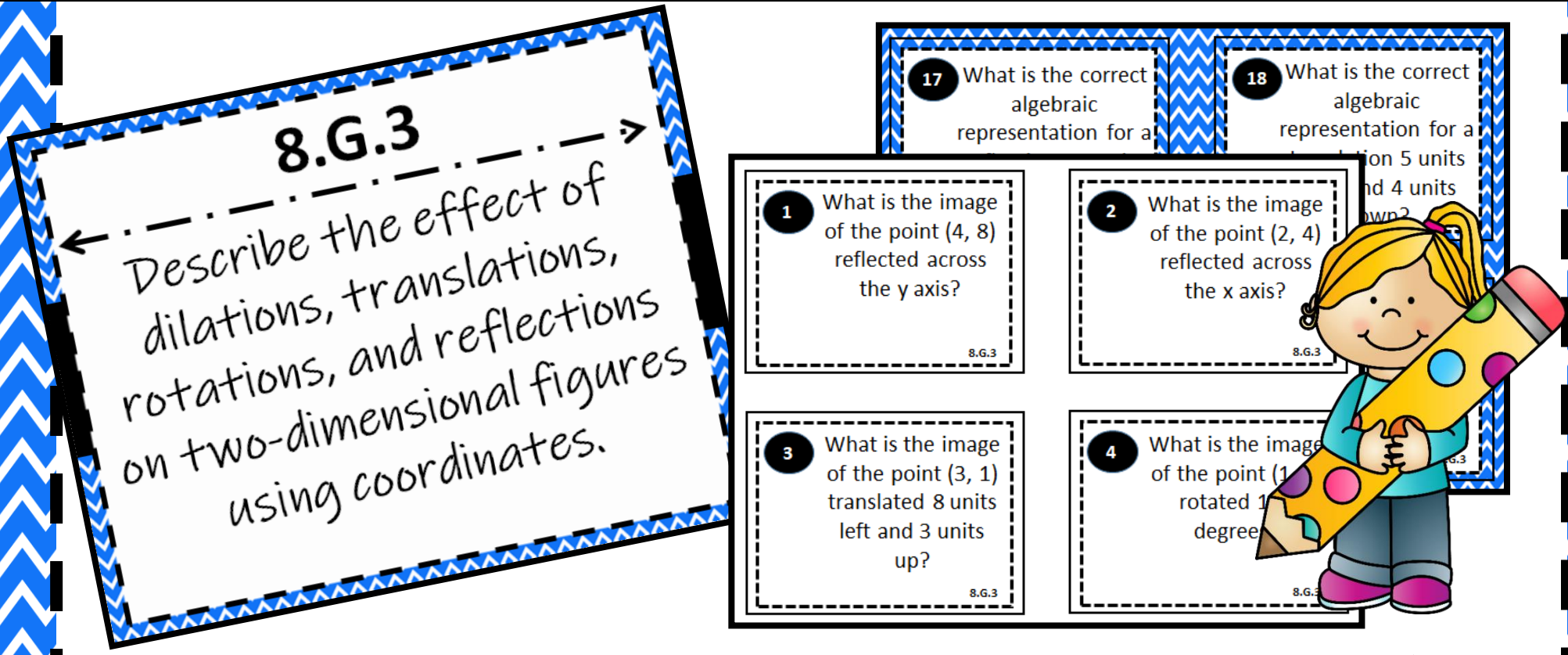
Geometry
Task Cards 8.G.3

20 Task Cards, Recording Sheet, Answer Sheet



Created by:
Math in the Midwest

8.G.3

Describe the effect of dilations, translations, rotations, and reflections on two-dimensional figures using coordinates.

1

What is the image of the point (4, 8) reflected across the y axis?

8.G.3

2

What is the image of the point (2, 4) reflected across the x axis?

8.G.3

3

What is the image of the point (3, 1) translated 8 units left and 3 units up?

8.G.3

4

What is the image of the point (1, 3) rotated 180 degrees?

8.G.3

5

What is the image of the point (-2, 4) after a dilation by a scale factor of 2?

8.G.3

6

What is the image of the point (-2, 0) translated 7 units right and 4 units down?

8.G.3

7

What is the image of the point (-4, 3) rotated 90 degrees clockwise?

8.G.3

8

What is the image of the point (-9, 8) translated 4 units left and 3 units down?

8.G.3

9

What is the image of the point (-2, -4) rotated 90 degrees counterclockwise?

8.G.3

10

What is the image of the point (-6 , -8) reflected across the y axis?

8.G.3

11

What is the image of the point (-6, -12) after a dilation by a scale factor of $\frac{1}{3}$?

8.G.3

12

What is the image of the point (-5, -1) translated 5 units right and 8 units up?

8.G.3

13

What is the image of the point (8, -3) reflected across the x axis?

8.G.3

14

What is the image of the point (2, -1) after a dilation by a scale factor of 4?

8.G.3

15

What is the image of the point (4, -8) rotated 90 degrees counterclockwise?

8.G.3

16

What is the image of the point (1, -9) translated 5 units left and 7 units up?

8.G.3

17 What is the correct algebraic representation for a reflection over the x axis?

8.G.3

18 What is the correct algebraic representation for a translation 5 units right and 4 units down?

8.G.3

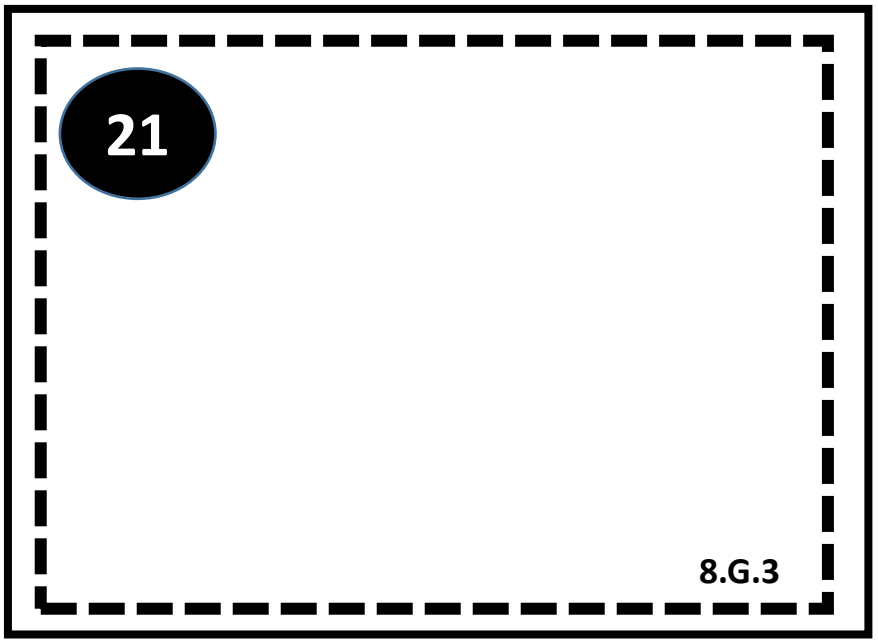
19 What is the correct algebraic representation for a rotation 180 degrees?

8.G.3

20 What is the correct algebraic representation for a rotation 90 degrees counter clockwise?

8.G.3

21



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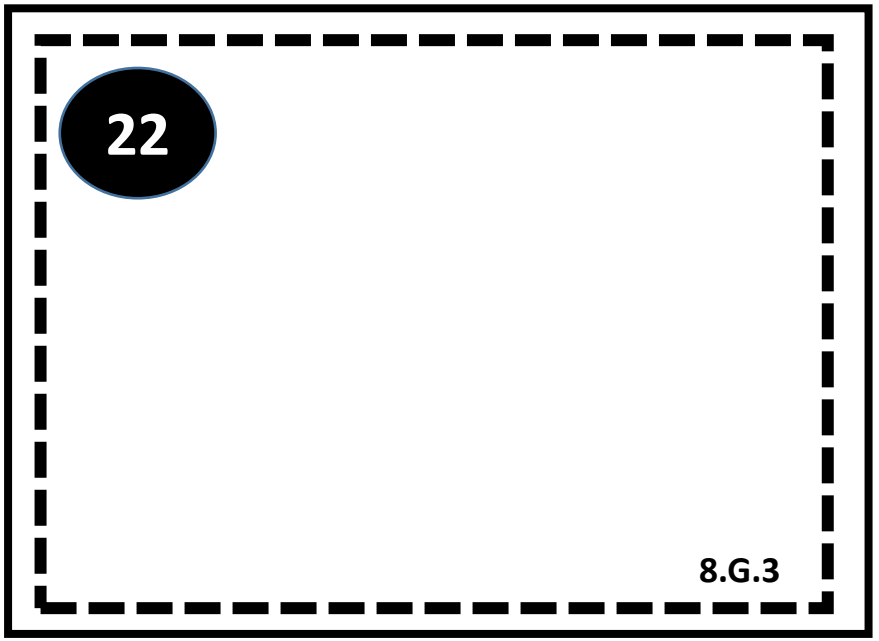
22



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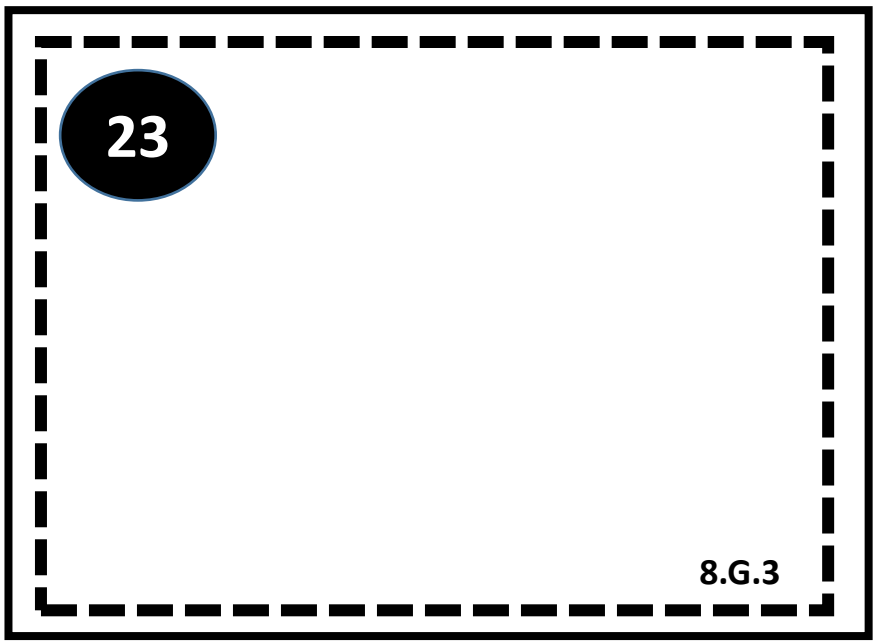
23



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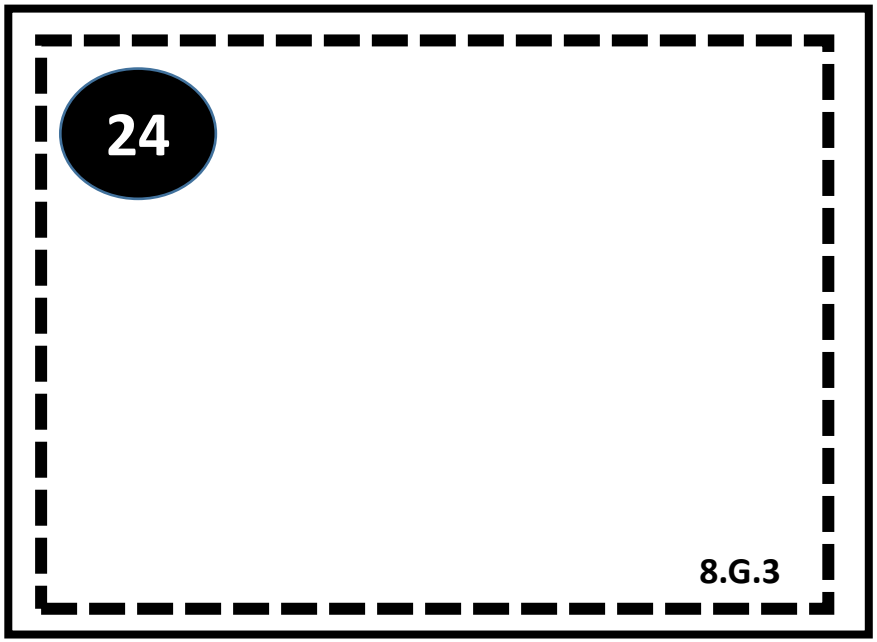
24



8.G.3

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8.G.3

21

8.G.3

22

8.G.3

23

8.G.3

24

8.G.3

Name _____ Hour _____

8.G.3 Recording Sheet

1.	2.	3.
4.	5.	6.
7.	8.	9.

Name _____ Hour _____

10.	11.	12.
13.	14.	15.
16.	17.	18.
19.	20.	

Answer Key

Number	Answer
1	$(-4, 8)$
2	$(2, -4)$
3	$(-5, 4)$
4	$(-1, -3)$
5	$(-4, -8)$
6	$(5, -4)$
7	$(3, 4)$
8	$(-13, 5)$
9	$(-4, 2)$
10	$(6, -8)$

Number	Answer
11	$(-2, -4)$
12	$(0, 7)$
13	$(8, 3)$
14	$(8, -4)$
15	$(8, 4)$
16	$(-4, -2)$
17	$(x, -y)$
18	$(x + 5, y - 4)$
19	$(-x, -y)$
20	$(-y, x)$

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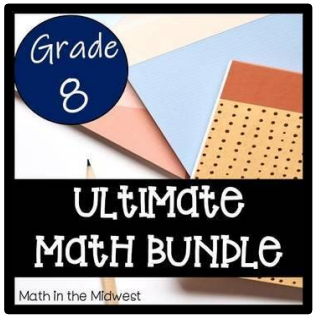

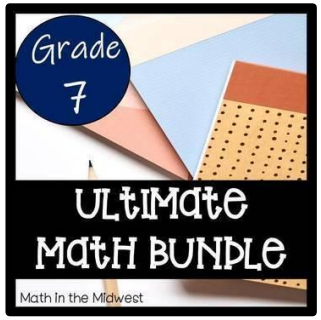

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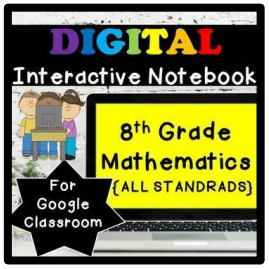

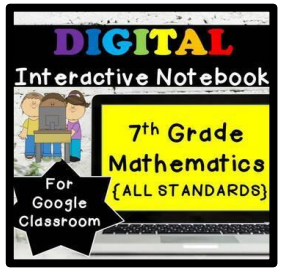

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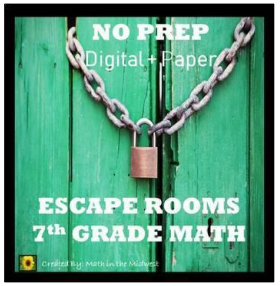

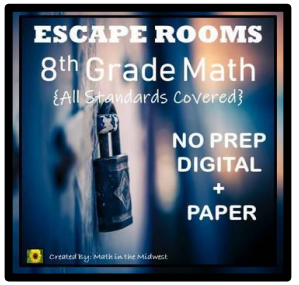

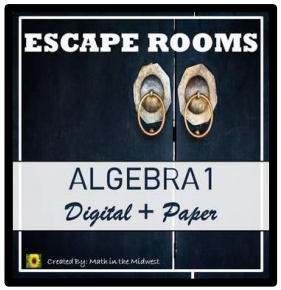

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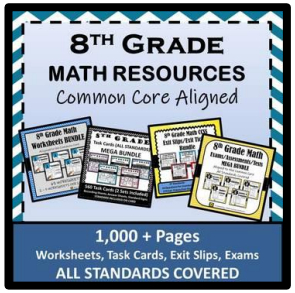

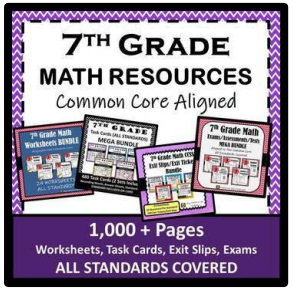

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