

STANDARD(S)

HSG-CO.A.2

HSG-CO.A.5

OBJECTIVES

Content

Understand, identify and perform transformations such as translations, reflections, rotations, and dilations and solve problems involving transformations.

Language

Explain the steps in solving problems by using sequencing

AGENDA.

- Warm-up
- Definitions
- Guided Practice
- Independent Activities
- Cool-Down(Exit Ticket)

Translations

slide



*move an item in any direction
without rotating it

STANDARD(S)

HSG-CO.A.2

HSG-CO.A.5

OBJECTIVES

Content

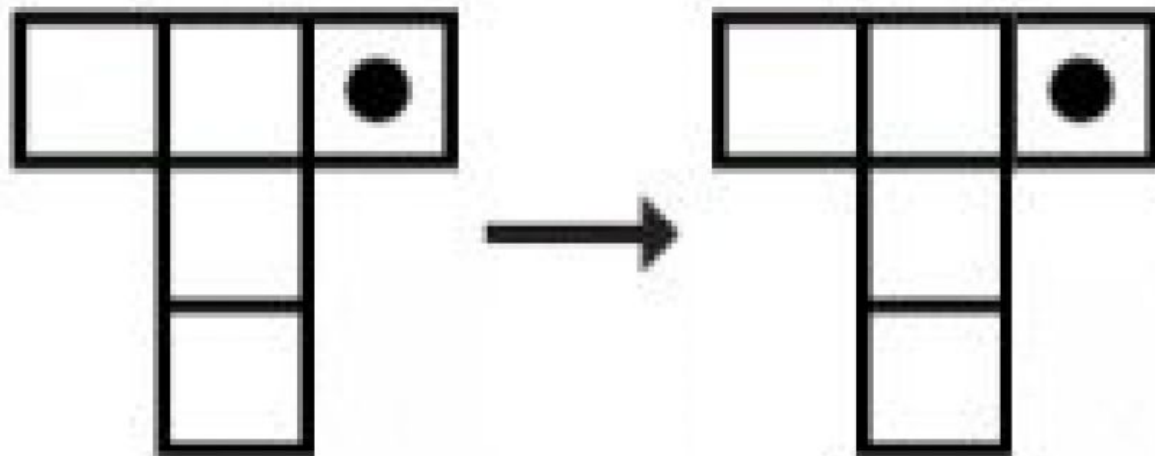
Understand, identify and perform transformations such as translations, reflections, rotations, and dilations and solve problems involving transformations.

Language

Explain the steps in solving problems by using sequencing

AGENDA.

- Warm-up
- Definitions
- Guided Practice
- Independent Activities
- Cool-Down(Exit Ticket)



Translation

STANDARD(S)

HSG-CO.A.2

HSG-CO.A.5

OBJECTIVES

Content

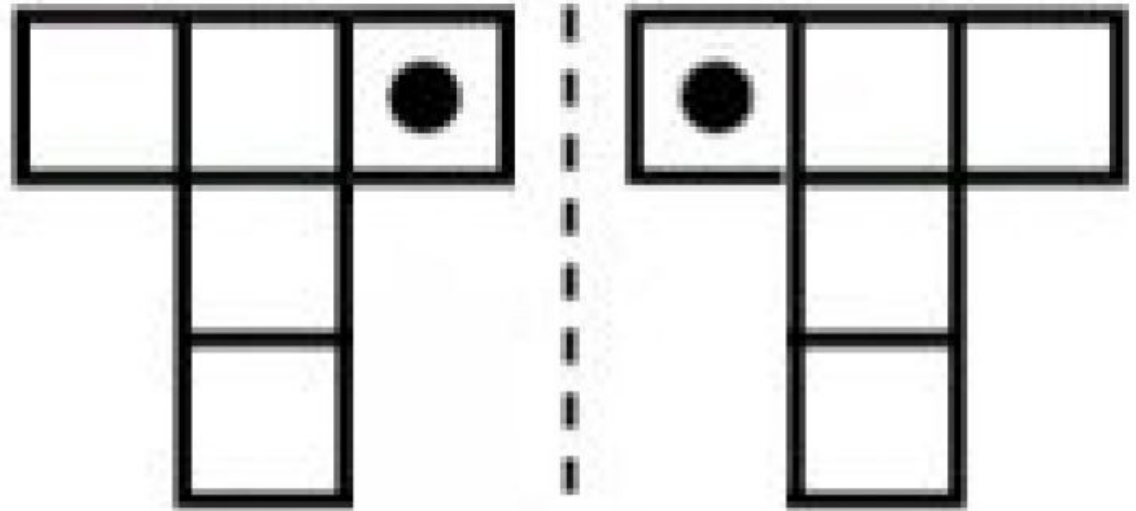
Understand, identify and perform transformations such as translations, reflections, rotations, and dilations and solve problems involving transformations.

Language

Explain the steps in solving problems by using sequencing

AGENDA.

- Warm-up
- Definitions
- Guided Practice
- Independent Activities
- Cool-Down(Exit Ticket)



Reflection

STANDARD(S)

HSG-CO.A.2

HSG-CO.A.5

OBJECTIVES

Content

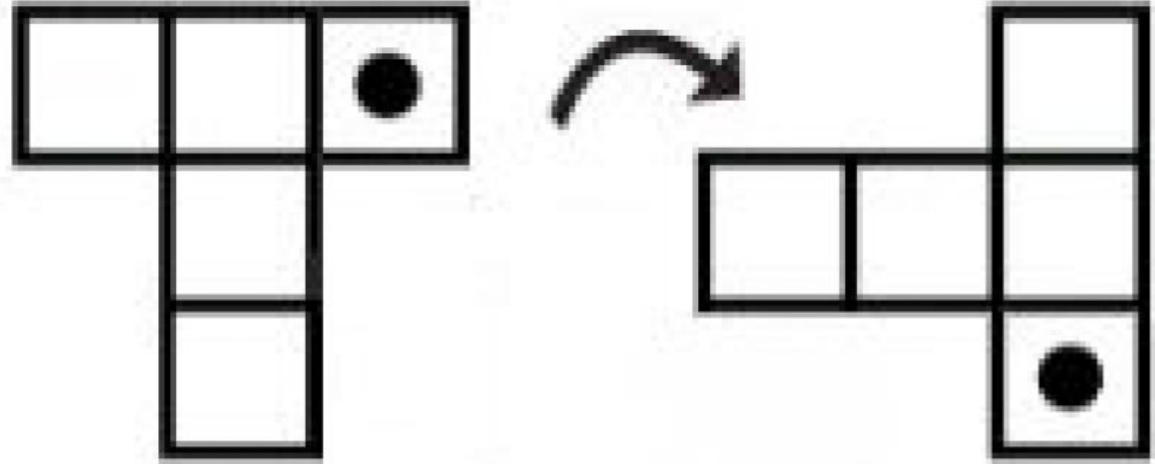
Understand, identify and perform transformations such as translations, reflections, rotations, and dilations and solve problems involving transformations.

Language

Explain the steps in solving problems by using sequencing

AGENDA.

- Warm-up
- Definitions
- Guided Practice
- Independent Activities
- Cool-Down(Exit Ticket)



Rotation

STANDARD(S)

HSG-CO.A.2

HSG-CO.A.5

OBJECTIVES

Content

Understand, identify and perform transformations such as translations, reflections, rotations, and dilations and solve problems involving transformations.

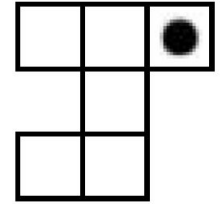
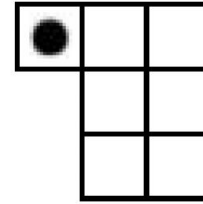
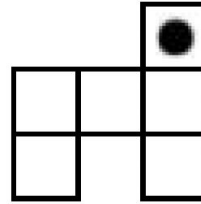
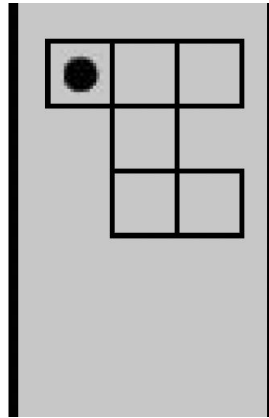
Language

Explain the steps in solving problems by using sequencing

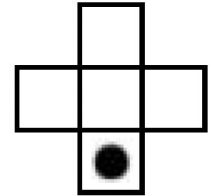
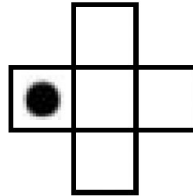
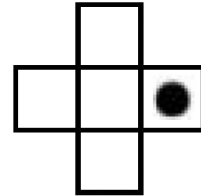
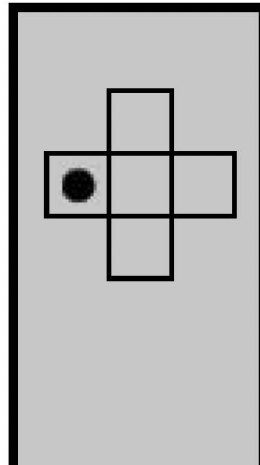
AGENDA.

- Warm-up
- Definitions
- Guided Practice
- Independent Activities
- Cool-Down(Exit Ticket)

1)



2)



STANDARD(S)

HSG-CO.A.2

HSG-CO.A.5

OBJECTIVES

Content

Understand, identify and perform transformations such as translations, reflections, rotations, and dilations and solve problems involving transformations.

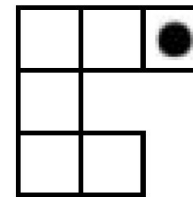
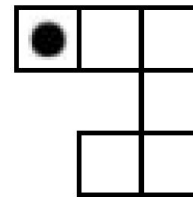
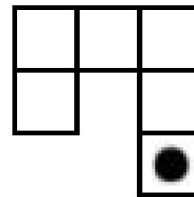
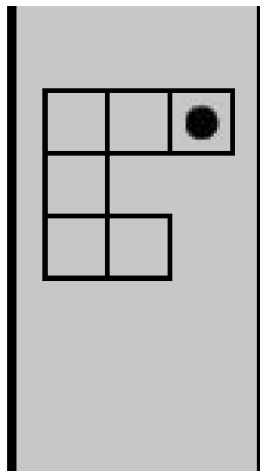
Language

Explain the steps in solving problems by using sequencing

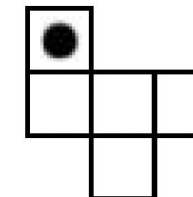
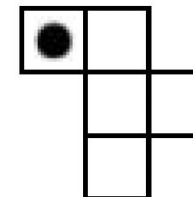
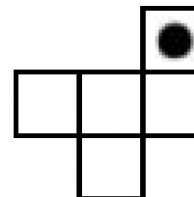
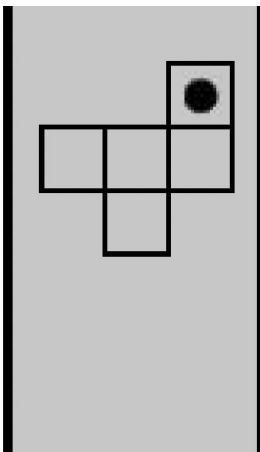
AGENDA.

- Warm-up
- Definitions
- Guided Practice
- Independent Activities
- Cool-Down(Exit Ticket)

3)



4)



STANDARD(S)

HSG-CO.A.2

HSG-CO.A.5

OBJECTIVES

Content

Understand, identify and perform transformations such as translations, reflections, rotations, and dilations and solve problems involving transformations.

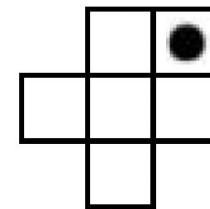
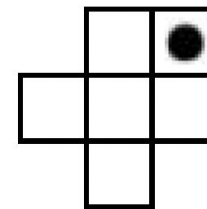
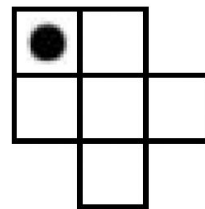
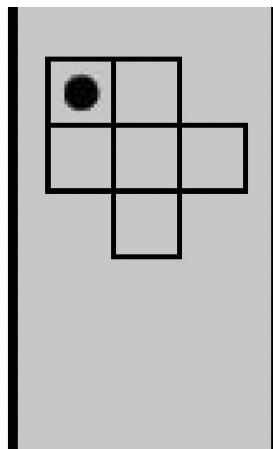
Language

Explain the steps in solving problems by using sequencing

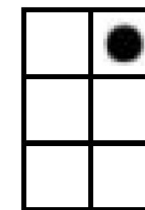
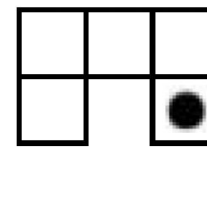
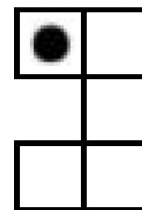
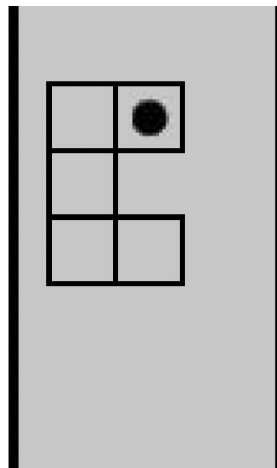
AGENDA.

- Warm-up
- Definitions
- Guided Practice
- Independent Activities
- Cool-Down(Exit Ticket)

5)



6)



STANDARD(S)

HSG-CO.A.2

HSG-CO.A.5

OBJECTIVES

Content

Understand, identify and perform transformations such as translations, reflections, rotations, and dilations and solve problems involving transformations.

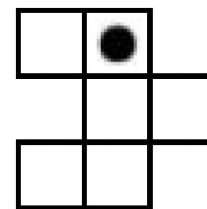
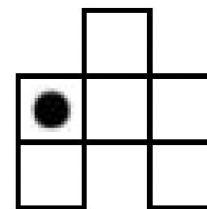
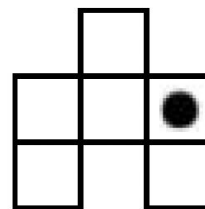
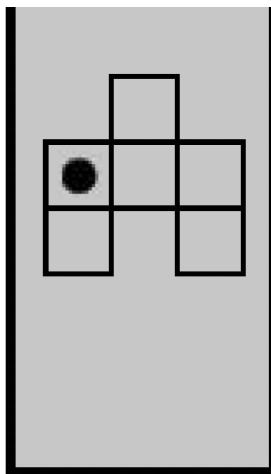
Language

Explain the steps in solving problems by using sequencing

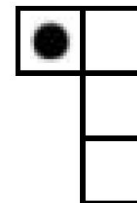
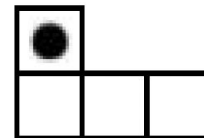
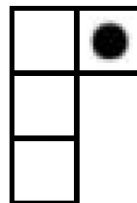
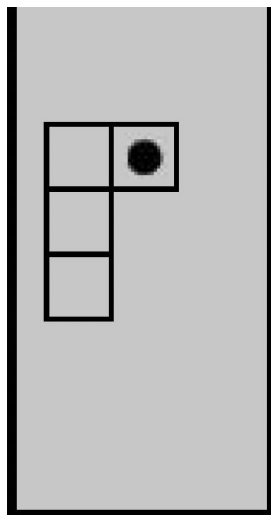
AGENDA.

- Warm-up
- Definitions
- Guided Practice
- Independent Activities
- Cool-Down(Exit Ticket)

7)



8)



STANDARD(S)

HSG-CO.A.2

HSG-CO.A.5

OBJECTIVES

Content

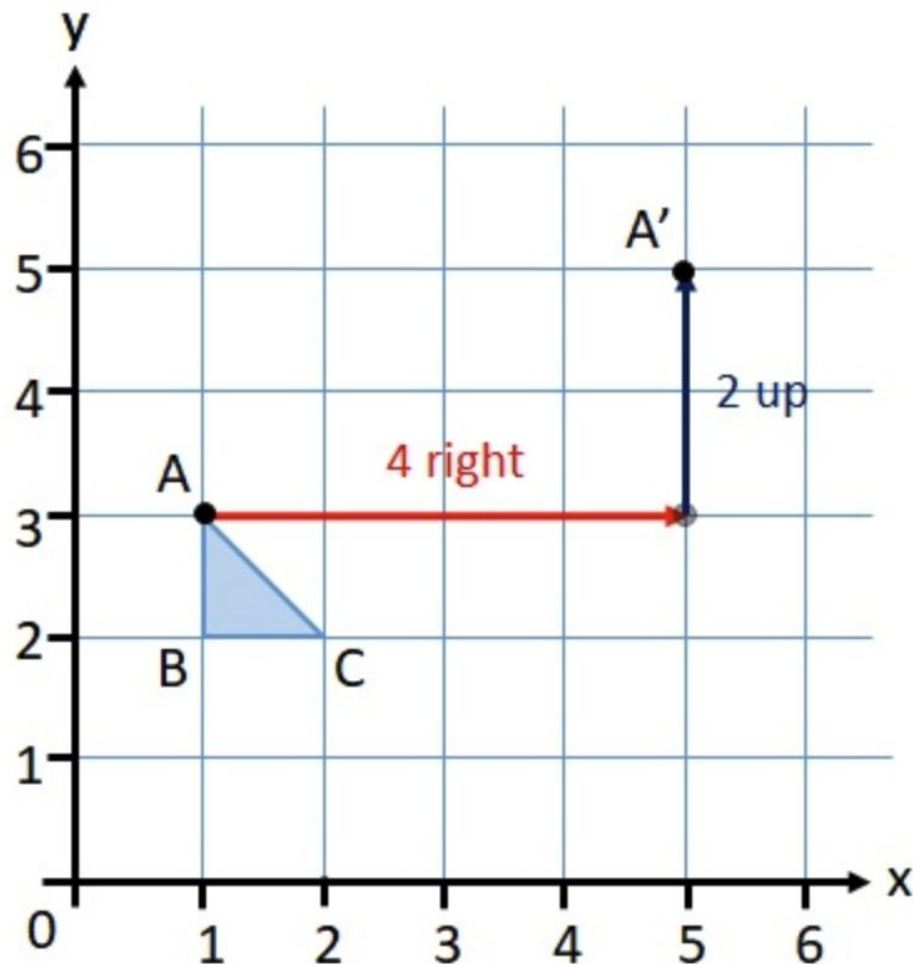
Understand, identify and perform transformations such as translations, reflections, rotations, and dilations and solve problems involving transformations.

Language

Explain the steps in solving problems by using sequencing

AGENDA.

- Warm-up
- Definitions
- Guided Practice
- Independent Activities
- Cool-Down(Exit Ticket)



STANDARD(S)

HSG-CO.A.2

HSG-CO.A.5

OBJECTIVES

Content

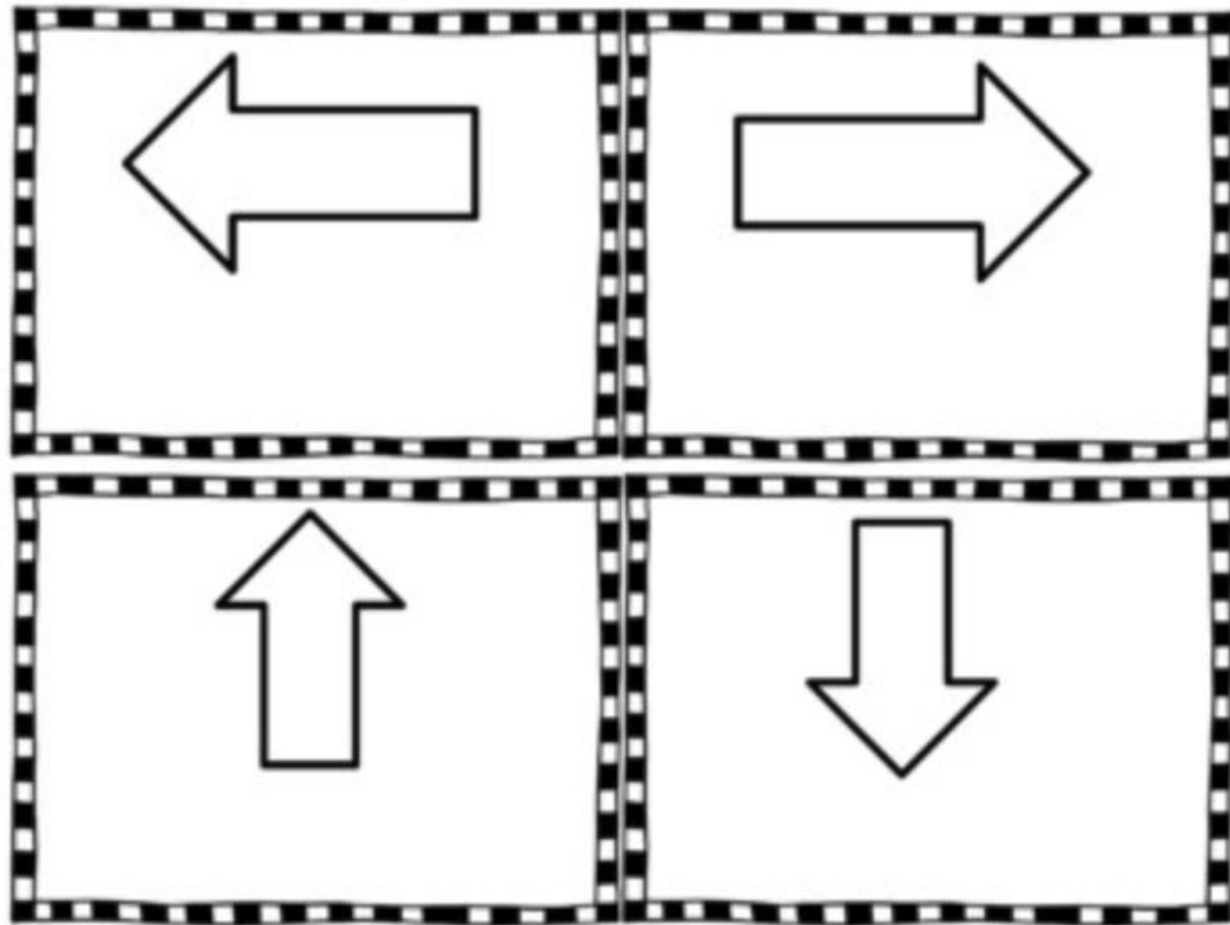
Understand, identify and perform transformations such as translations, reflections, rotations, and dilations and solve problems involving transformations.

Language

Explain the steps in solving problems by using sequencing

AGENDA.

- Warm-up
- Definitions
- Guided Practice
- Independent Activities
- Cool-Down(Exit Ticket)



STANDARD(S)

HSG-CO.A.2

HSG-CO.A.5

OBJECTIVES

Content

Understand, identify and perform transformations such as translations, reflections, rotations, and dilations and solve problems involving transformations.

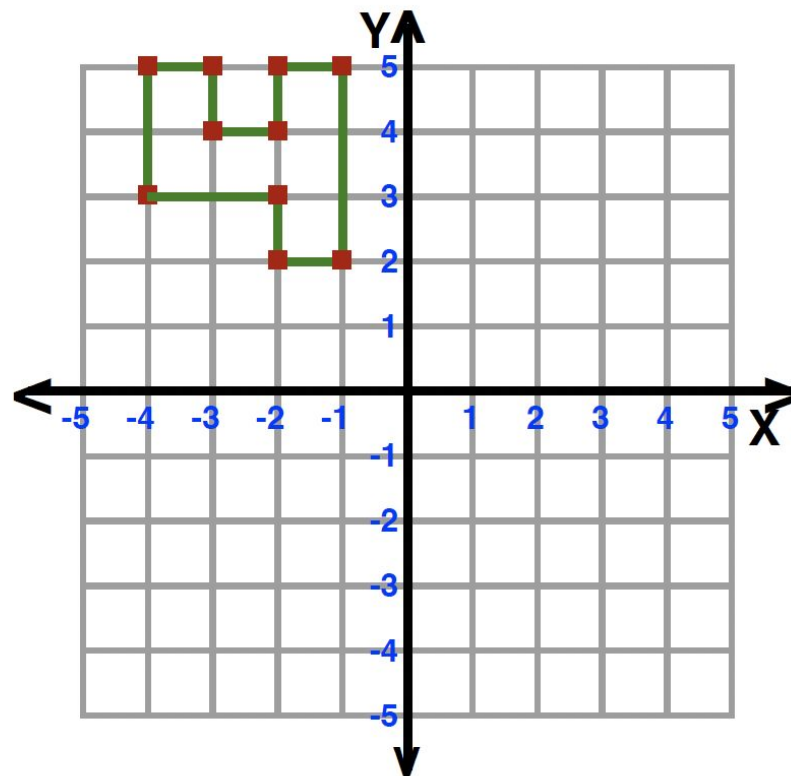
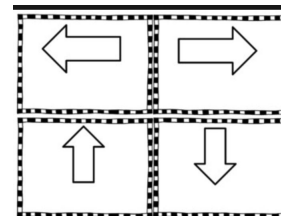
Language

Explain the steps in solving problems by using sequencing

AGENDA.

- Warm-up
- Definitions
- Guided Practice
- Independent Activities
- Cool-Down(Exit Ticket)

1) Translation: 2 down



STANDARD(S)

HSG-CO.A.2

HSG-CO.A.5

OBJECTIVES

Content

Understand, identify and perform transformations such as translations, reflections, rotations, and dilations and solve problems involving transformations.

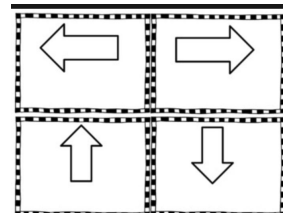
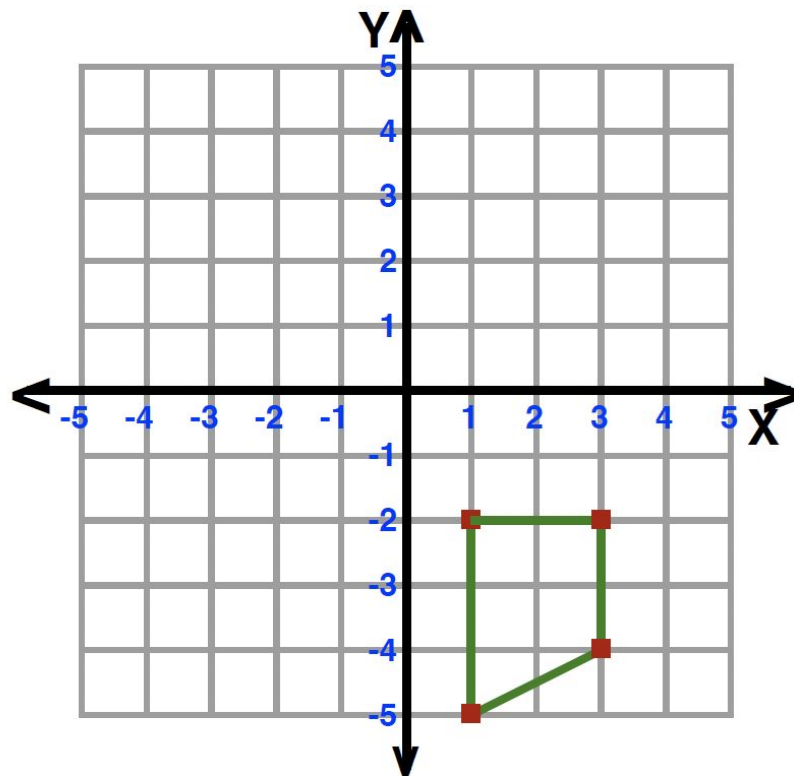
Language

Explain the steps in solving problems by using sequencing

AGENDA.

- Warm-up
- Definitions
- Guided Practice
- Independent Activities
- Cool-Down(Exit Ticket)

2) Translation: 2 left and 4 up



STANDARD(S)

HSG-CO.A.2

HSG-CO.A.5

OBJECTIVES

Content

Understand, identify and perform transformations such as translations, reflections, rotations, and dilations and solve problems involving transformations.

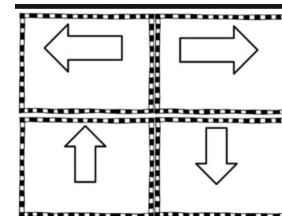
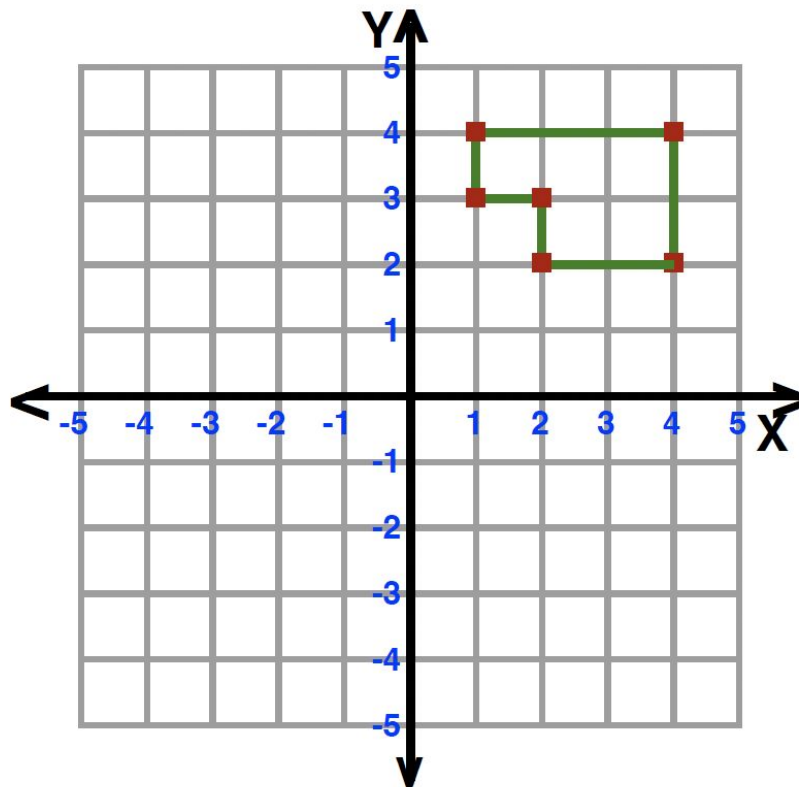
Language

Explain the steps in solving problems by using sequencing

AGENDA.

- Warm-up
- Definitions
- Guided Practice
- Independent Activities
- Cool-Down(Exit Ticket)

3) Translation: 5 left and 2 down



STANDARD(S)

HSG-CO.A.2

HSG-CO.A.5

OBJECTIVES

Content

Understand, identify and perform transformations such as translations, reflections, rotations, and dilations and solve problems involving transformations.

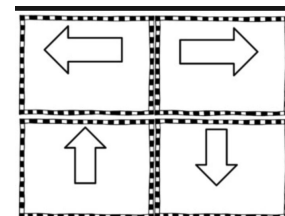
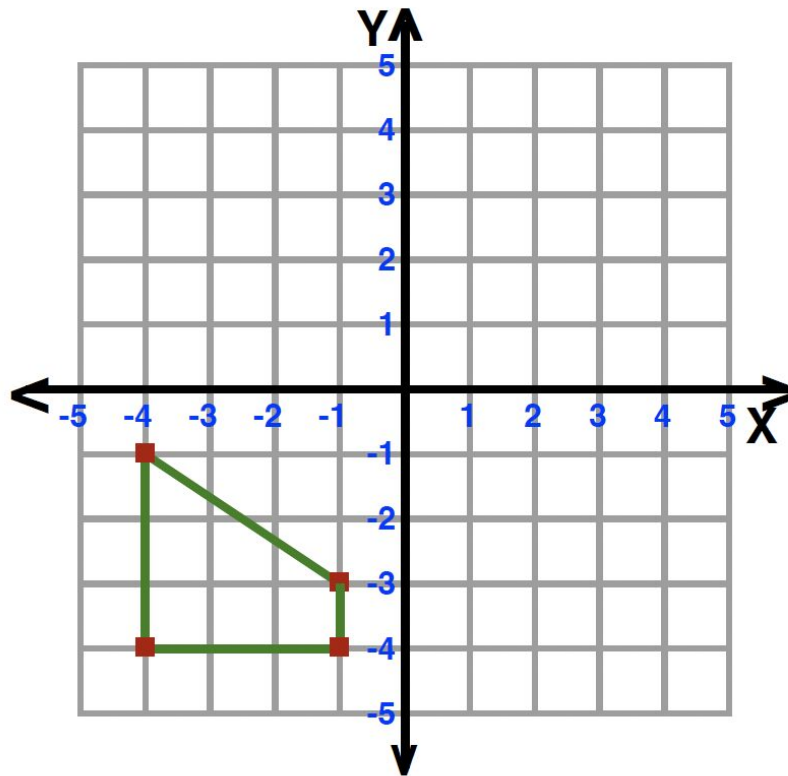
Language

Explain the steps in solving problems by using sequencing

AGENDA.

- Warm-up
- Definitions
- Guided Practice
- Independent Activities
- Cool-Down(Exit Ticket)

4) Translation: 3 right and 5 up



STANDARD(S)

HSG-CO.A.2

HSG-CO.A.5

OBJECTIVES

Content

Understand, identify and perform transformations such as translations, reflections, rotations, and dilations and solve problems involving transformations.

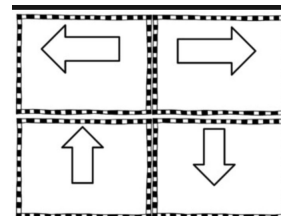
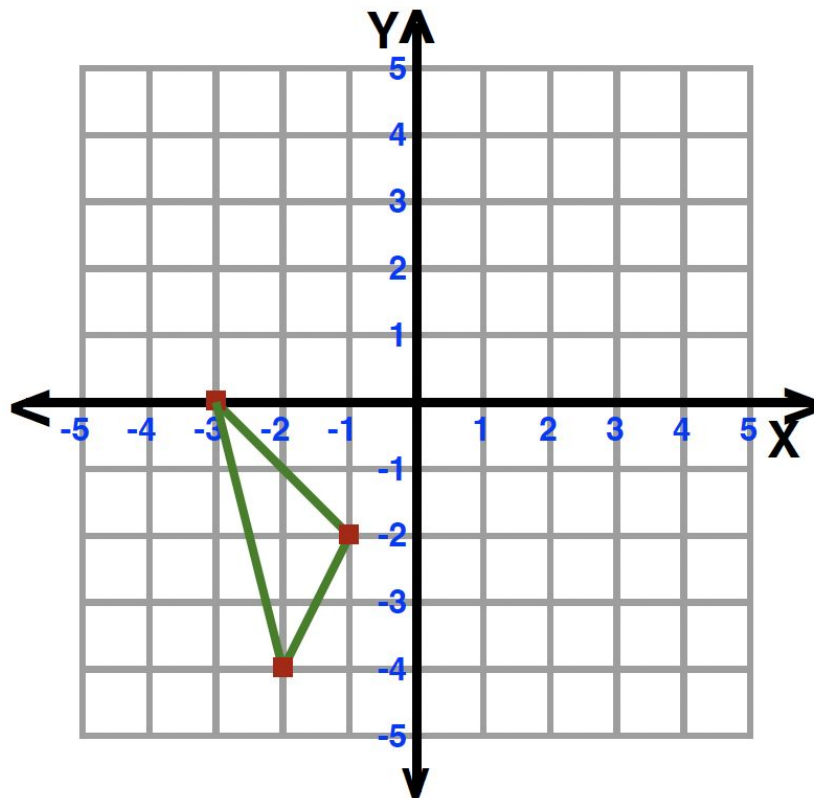
Language

Explain the steps in solving problems by using sequencing

AGENDA.

- Warm-up
- Definitions
- Guided Practice
- Independent Activities
- Cool-Down(Exit Ticket)

5) Translation: 4 right and 5 up



STANDARD(S)

HSG-CO.A.2

HSG-CO.A.5

OBJECTIVES

Content

Understand, identify and perform transformations such as translations, reflections, rotations, and dilations and solve problems involving transformations.

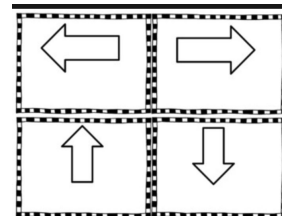
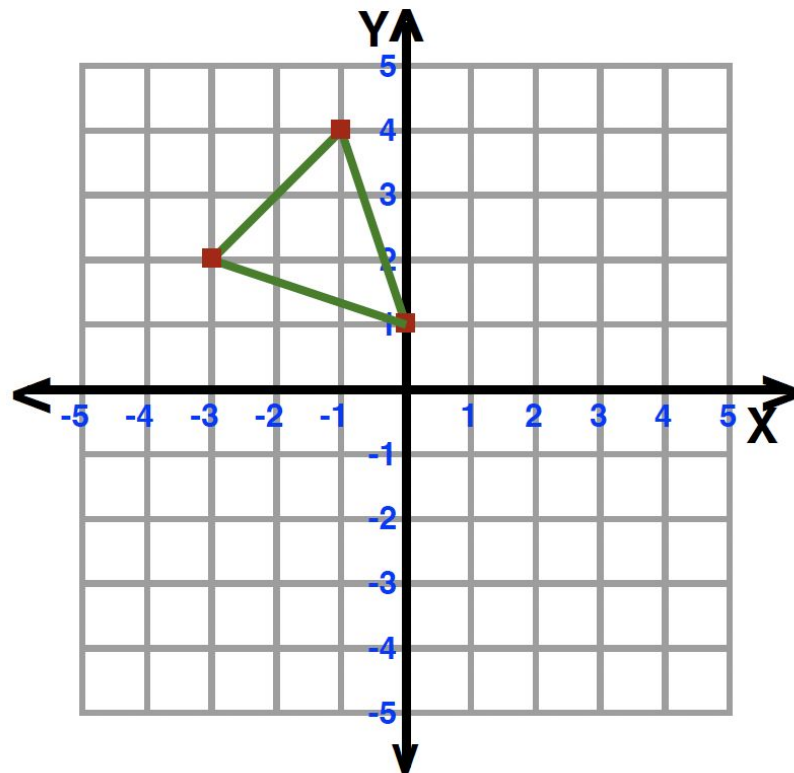
Language

Explain the steps in solving problems by using sequencing

AGENDA.

- Warm-up
- Definitions
- Guided Practice
- Independent Activities
- Cool-Down(Exit Ticket)

6) Translation: 4 right and 3 down



STANDARD(S)

HSG-CO.A.2

HSG-CO.A.5

OBJECTIVES

Content

Understand, identify and perform transformations such as translations, reflections, rotations, and dilations and solve problems involving transformations.

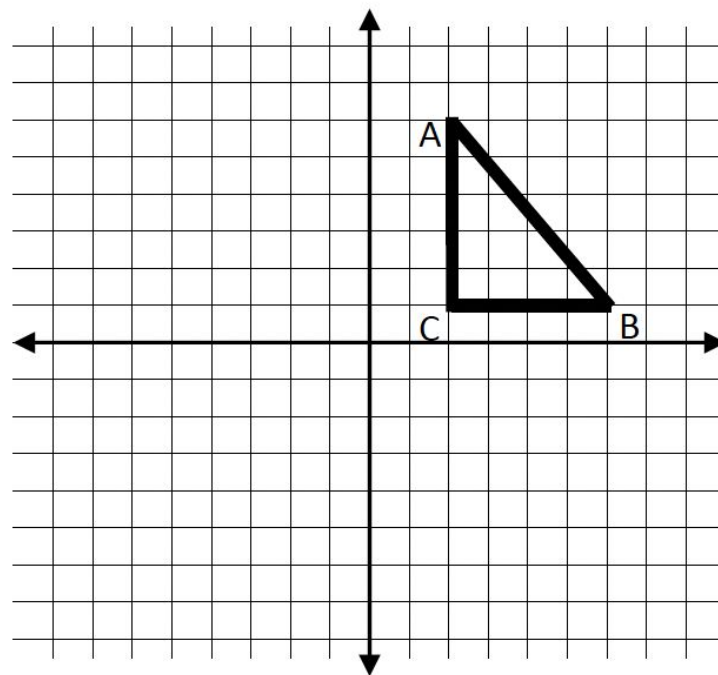
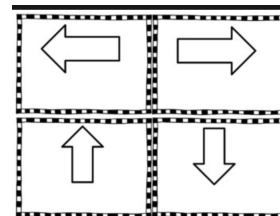
Language

Explain the steps in solving problems by using sequencing

AGENDA.

- Warm-up
- Definitions
- Guided Practice
- Independent Activities
- Cool-Down(Exit Ticket)

1. Slide 8 left and 5 down.



STANDARD(S)

HSG-CO.A.2

HSG-CO.A.5

OBJECTIVES

Content

Understand, identify and perform transformations such as translations, reflections, rotations, and dilations and solve problems involving transformations.

Language

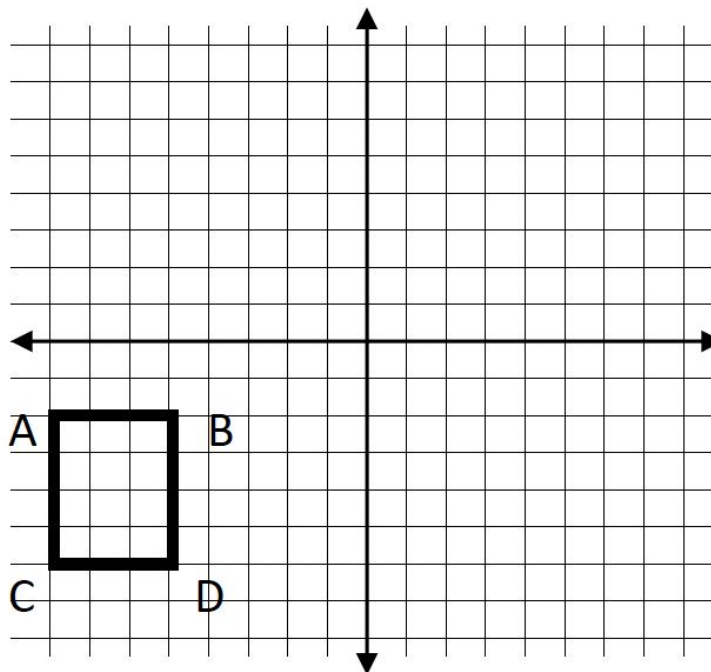
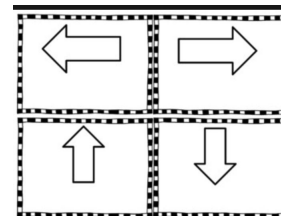
Explain the steps in solving problems by using sequencing

AGENDA.

- Warm-up
- Definitions
- Guided Practice
- Independent Activities
- Cool-Down(Exit Ticket)

2. $A(-8, -2)$; $B(-5, -2)$; $C(-8, -6)$;
 $D(-5, -6)$

$$(x, y) \longrightarrow (x + 8, y + 10)$$



STANDARD(S)

HSG-CO.A.2

HSG-CO.A.5

OBJECTIVES

Content

Understand, identify and perform transformations such as translations, reflections, rotations, and dilations and solve problems involving transformations.

Language

Explain the steps in solving problems by using sequencing

AGENDA.

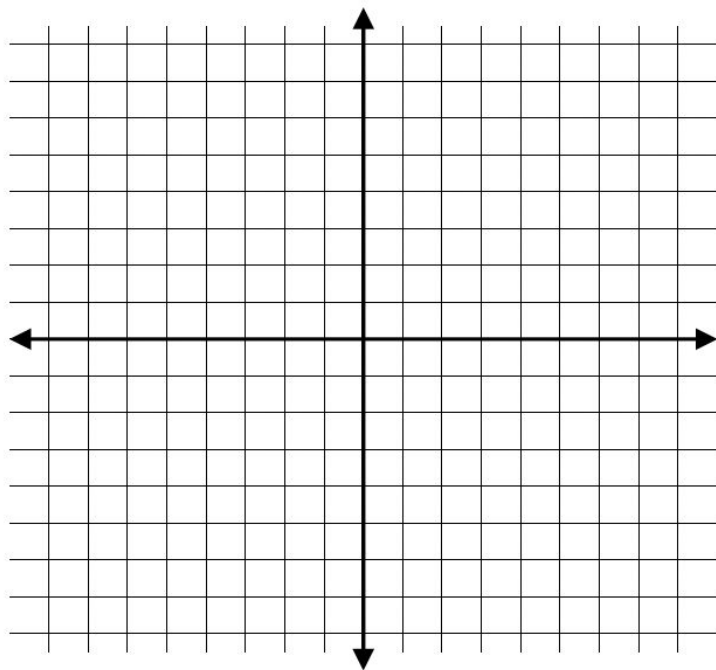
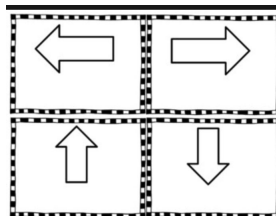
- Warm-up
- Definitions
- Guided Practice
- Independent Activities
- Cool-Down(Exit Ticket)

a)

P (4 , 8) Q (2 , 6)

R (2 , 3) S (4 , 5)

$(x, y) \rightarrow (x + 4, y - 5)$



STANDARD(S)

HSG-CO.A.2

HSG-CO.A.5

OBJECTIVES

Content

Understand, identify and perform transformations such as translations, reflections, rotations, and dilations and solve problems involving transformations.

Language

Explain the steps in solving problems by using sequencing

AGENDA.

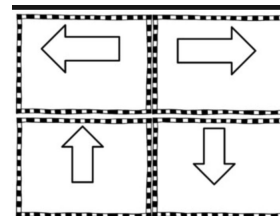
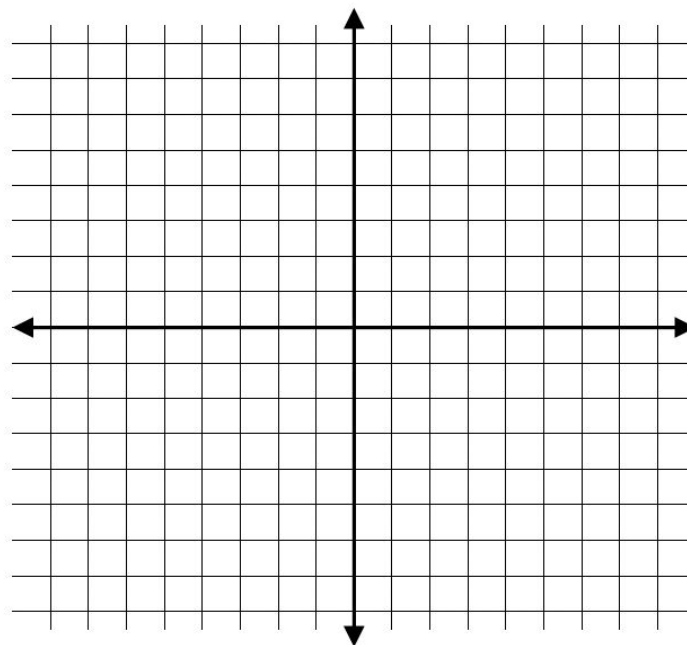
- Warm-up
- Definitions
- Guided Practice
- Independent Activities
- Cool-Down(Exit Ticket)

a)

P (5 , 3) Q (7 , 4)

R (7 , 1)

$$(x, y) \rightarrow (x, y - 5)$$



STANDARD(S)

HSG-CO.A.2

HSG-CO.A.5

OBJECTIVES

Content

Understand, identify and perform transformations such as translations, reflections, rotations, and dilations and solve problems involving transformations.

Language

Explain the steps in solving problems by using sequencing

AGENDA.

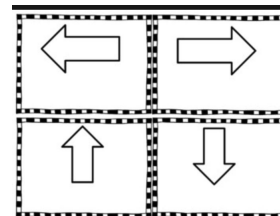
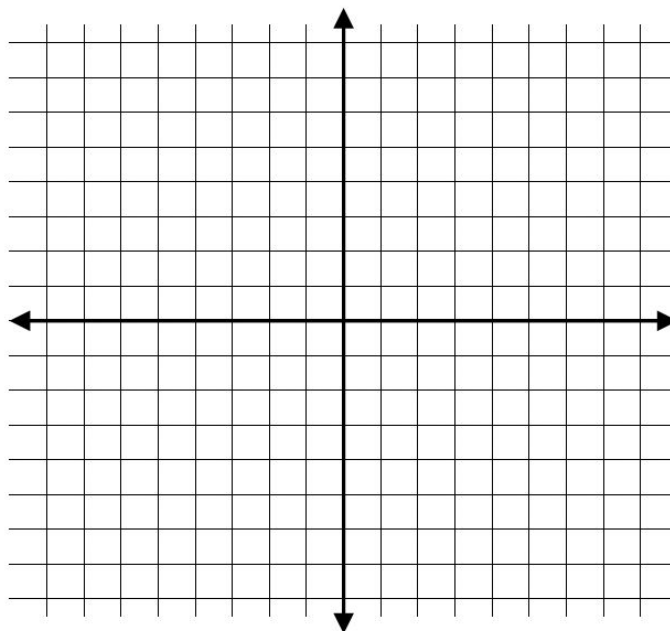
- Warm-up
- Definitions
- Guided Practice
- Independent Activities
- Cool-Down(Exit Ticket)

b)

A $(-1, 1)$ B $(1, 1)$

C $(1, -1)$ D $(-1, -1)$

$$(x, y) \rightarrow (x - 5, y)$$



STANDARD(S)

HSG-CO.A.2

HSG-CO.A.5

OBJECTIVES

Content

Understand, identify and perform transformations such as translations, reflections, rotations, and dilations and solve problems involving transformations.

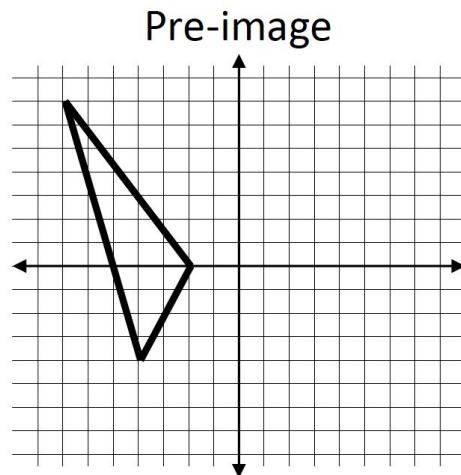
Language

Explain the steps in solving problems by using sequencing

AGENDA.

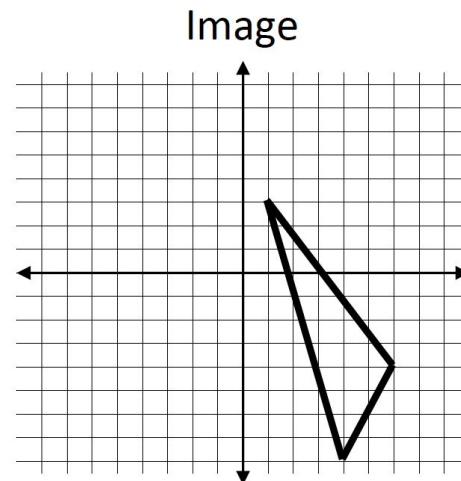
- Warm-up
- Definitions
- Guided Practice
- Independent Activities
- Cool-Down(Exit Ticket)

a) Using words (left, right, up, down, etc.).



b) Using coordinate notation:

$(x, y) \rightarrow (x \quad , y \quad)$



STANDARD(S)

HSG-CO.A.2

HSG-CO.A.5

OBJECTIVES

Content

Understand, identify and perform transformations such as translations, reflections, rotations, and dilations and solve problems involving transformations.

Language

Explain the steps in solving problems by using sequencing

AGENDA.

- Warm-up
- Definitions
- Guided Practice
- Independent Activities
- Cool-Down(Exit Ticket)