Moving in the Plane

Lesson 1

CCSS Standards: Building on	• 4.MD.C.5
CCSS Standards: Building towards	• 8.G.A.1

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Let’s describe ways figures can move in the plane.

Today's Goal

- ❏ I can describe how a figure moves and turns to get from one position to another.

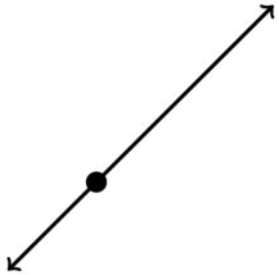
Which One Doesn’t Belong: Diagrams

Warm Up 1.1

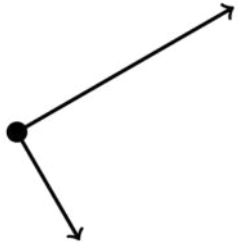
- Think Pair Share
- Compare and Connect

Which one doesn’t belong?

A

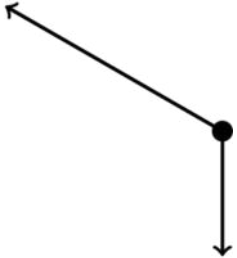


B



C

D



Can you explain the meaning of the following terms?

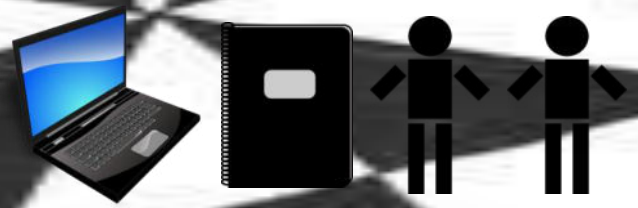
- ray
- degree
- acute angle
- right angle
- straight line

Triangle Square Dance

Activity 1.2

Discussion Supports

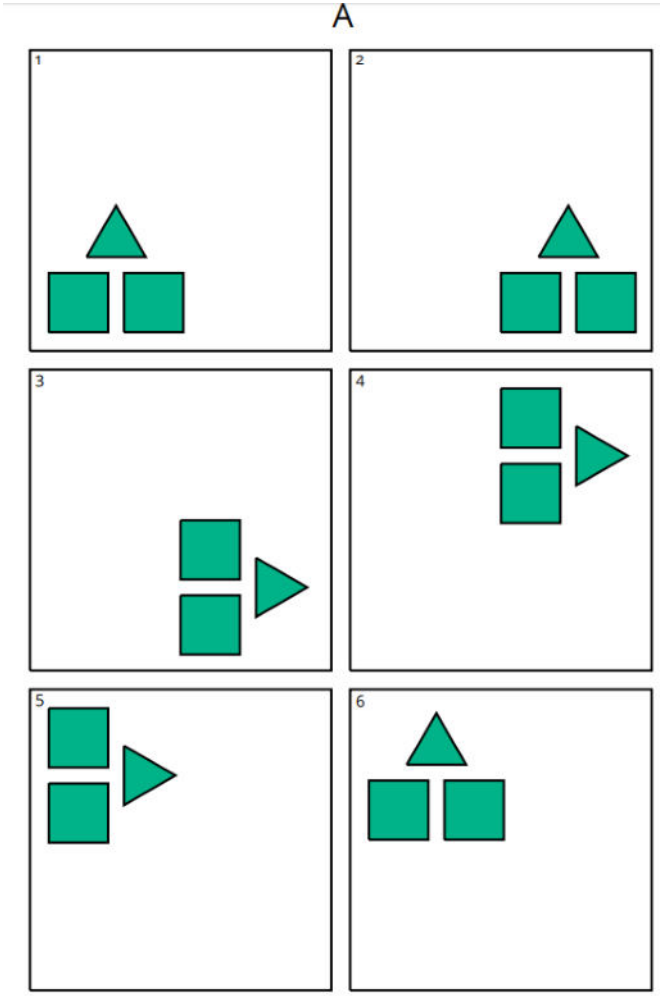
Collect & Display

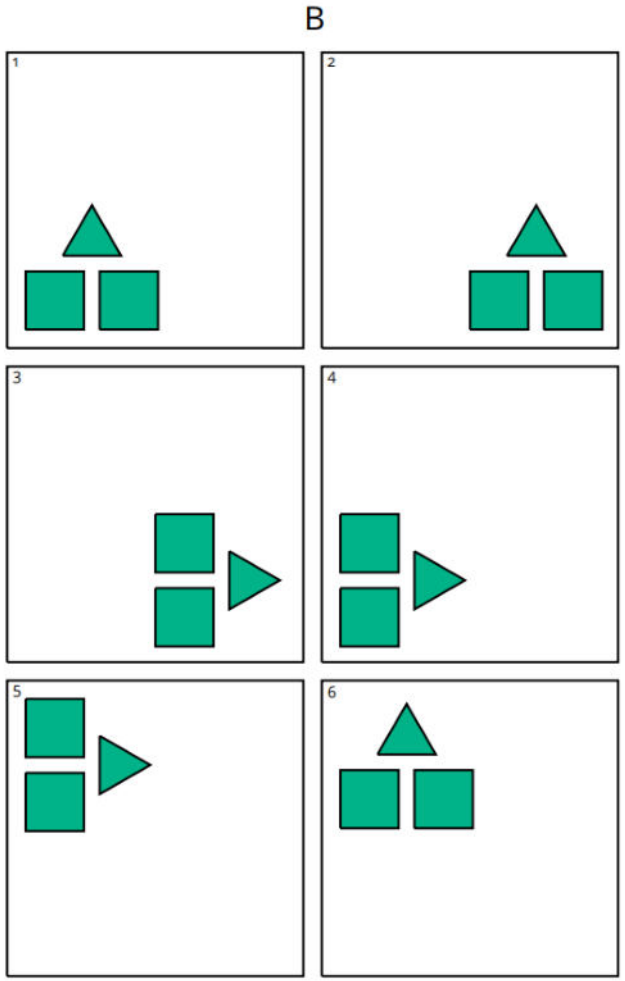


Triangle Square Dance (10 min)

Your teacher will give you 3 pictures. Each shows a different set of dance moves.

- Arrange the 3 pictures so one of you can see them right way up.
  Choose who will start the game.
  - The starting player chooses A, B, or C and describes the dance to the other player.
  - The other player identifies which dance is being talked about.
- Switch roles! When you have described all 3 dances, come to an agreement on the words you use to describe the moves in each dance.
- With your partner, write a description of the moves in each dance.


A
1
2
3
4
5
6


B
1
2
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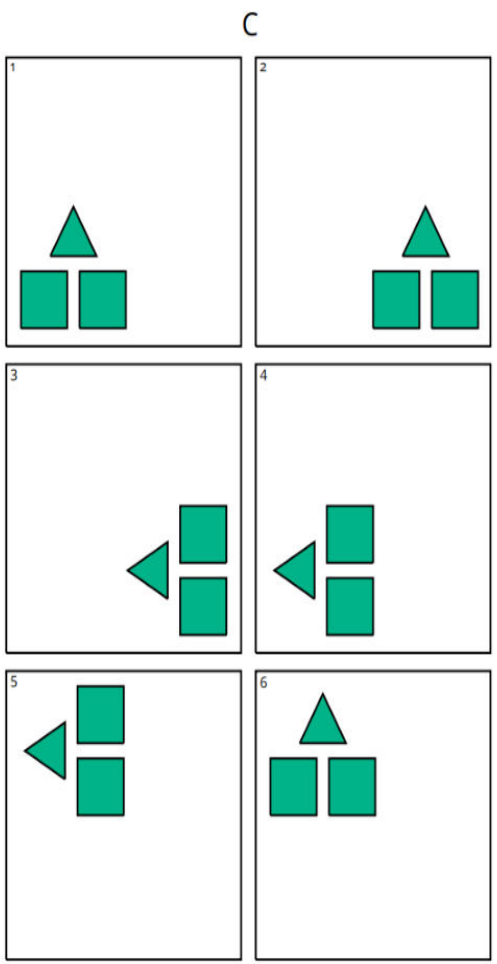

C
1
2
3
4
5
6

Let’s list words for different types of dance moves from this activity!

What was most challenging about describing the dances?

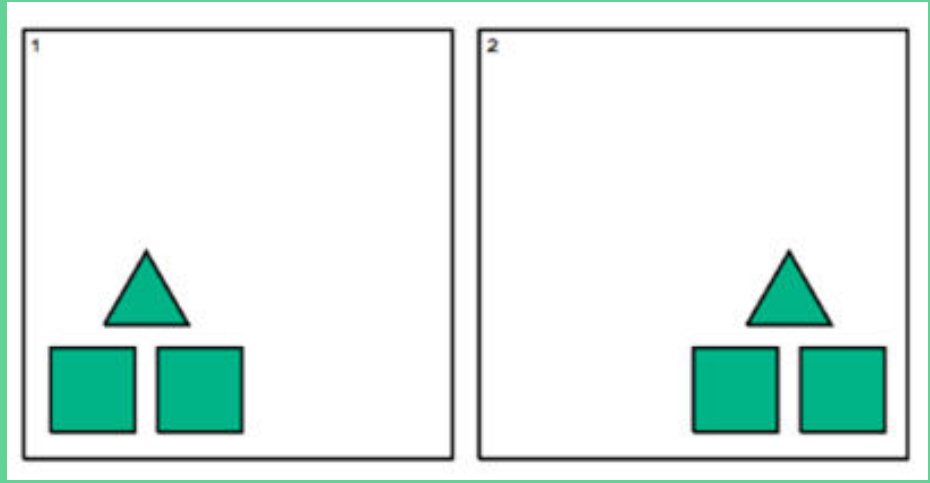
Were you sometimes able to identify the dance before their partner finished describing *all* the moves?

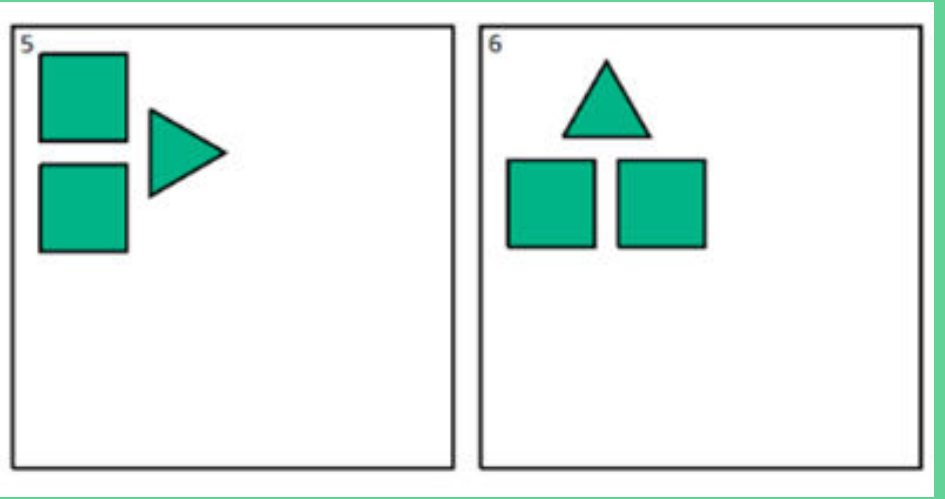
“Are you ready for more?”

We could think of each dance as a new dance by running it in reverse, starting in the 6th frame and working backwards to the first.

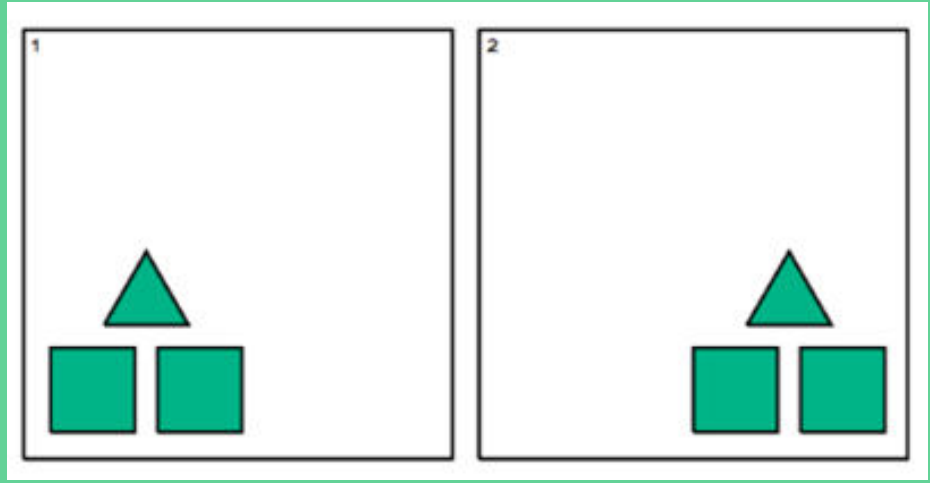
1. Pick a dance and describe in words one of these reversed dances.
2. How do the directions for running your dance in the forward direction and the reverse direction compare?

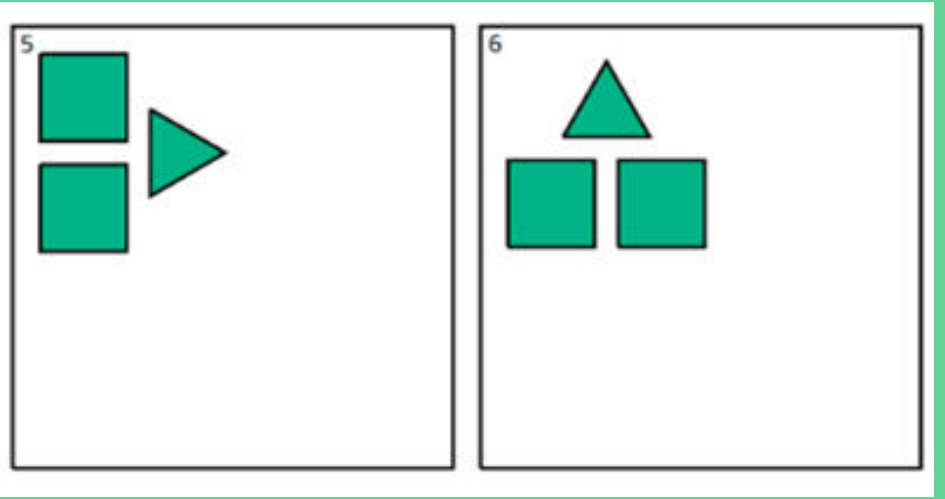
What language would you use to describe these movements?





How might you *quantify* each move?





In the first half of this unit,

we will examine these movements you have seen in the Triangle Dance and put formal language to describe the movements.

Today's Goal

- ❏ I can describe how a figure moves and turns to get from one position to another.

Frame to Frame

Cool Down 1.3