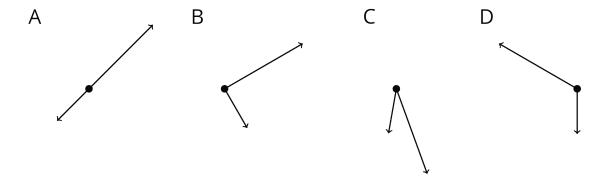


Lesson 1: Moving in the Plane

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

1.1: Which One Doesn't Belong: Diagrams

Which one doesn't belong?



1.2: Triangle Square Dance

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

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



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.

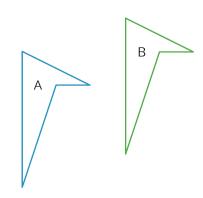
1. Pick a dance and describe in words one of these reversed dances.

2. How do the directions for running your dance in the forward direction and the reverse direction compare?

Lesson 1 Summary

Here are two ways for changing the position of a figure in a plane without changing its shape or size:

 Sliding or shifting the figure without turning it. Shifting Figure A to the right and up puts it in the position of Figure B.



 Turning or rotating the figure around a point. Figure A is rotated around the bottom vertex to create Figure C.

