

Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Unit Problem: Unit 8 Transformations

Knowledge (K) - Information, facts, and acquisition of skills Application (A) - The use of knowledge and skills for practical application, inquiry, and problem solving Communication (C) - The ability to develop and explore ideas and express what has been learned	K	A	C
SO8: Identify and describe a single transformation, including a translation, rotation and reflection of 2-D shapes			
SO9: Perform, concretely, a single transformation (translation, rotation or reflection) of a 2-D shape, and draw the image			

#### Part A

Use grid paper.

Draw a shape and its translation image.

Explain how you know your picture shows a translation.

How are a translation and a reflection alike?

Draw a shape and its image that could show both a reflection and a translation.

When you see a shape and its image, how do you know if they show a reflection, a rotation, or a translation?

Use diagrams to explain.

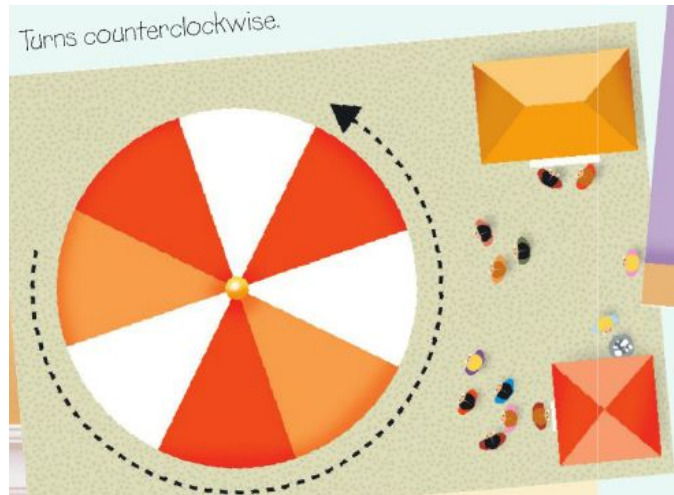
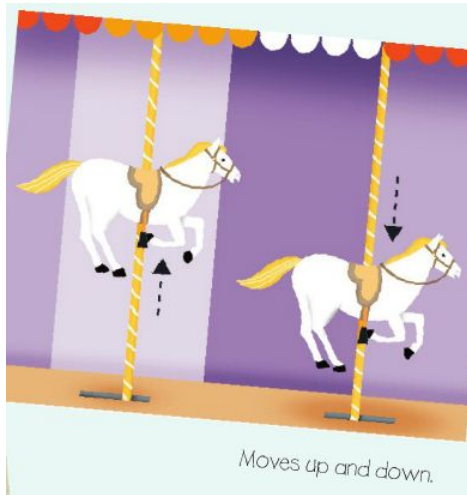
When you see a shape and its rotation image, how can you tell if the point of rotation is on or off the shape?

## Part B

Design a ride for an amusement park.

The ride must move people in at least 2 *different* ways.

*Exemplar:*



Think about how you will present your ride to the class.

Will you:

- make a drawing?
- make a model?
- write about it?
- talk about it?

How does your ride move people in at least 2 different ways?