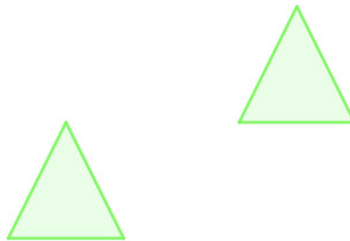# SYMMETRY & TRANSFORMATIONS

## 8TH GRADE

---

**#2**

STATE if the figures below represent a rotation, reflection or translation.

---

**#1**

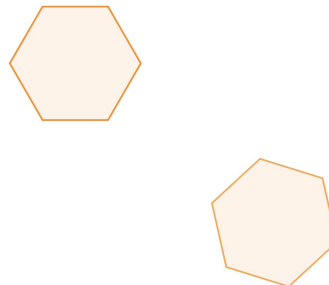STATE if the figures below represent a rotation, reflection or translation.

---

**#3**

STATE if the figures below represent a rotation, reflection or translation.

## #4

STATE if the figures below represent a rotation, reflection or translation.
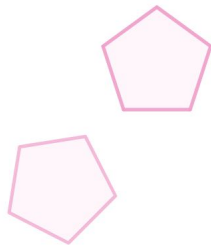
## #6

STATE if the figures below represent a rotation, reflection or translation.
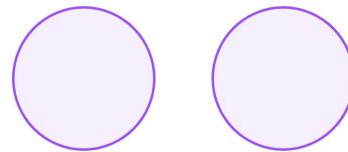
## #5

STATE if the figures below represent a rotation, reflection or translation.

## #7

STATE if the figures below represent a rotation, reflection or translation.
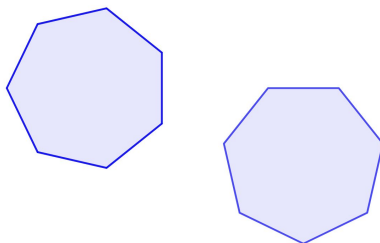
## #8

**STATE if the figures below represent a rotation, reflection or translation.**



## #9

**STATE if the figures below represent a rotation, reflection or translation.**



## #10

**STATE if the figures below represent a rotation, reflection or translation.**



## #11

**Reflection**

**y-axis**



A'(__, __)        B'(__, __)        C'(__, __)

## #12

Reflection

x-axis



A'(__, __)  B'(__, __)  C'(__, __)  D'(__,__)

## #14

STATE if the figures below represent a rotation, reflection or translation.



## #13

STATE if the figures below represent a rotation, reflection or translation.



## #15

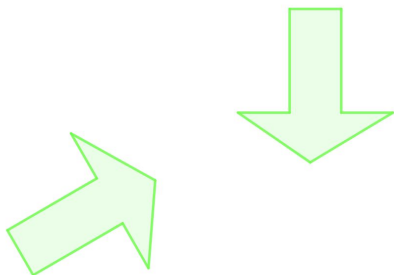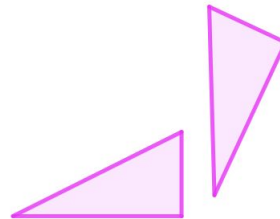STATE if the figures below represent a rotation, reflection or translation.

**#16**

STATE if the figures below represent a rotation, reflection or translation.



**#18**

STATE if the figures below represent a rotation, reflection or translation.
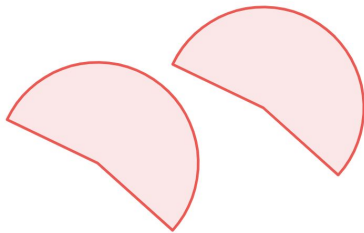


**#17**

STATE if the figures below represent a rotation, reflection or translation.



**#19**

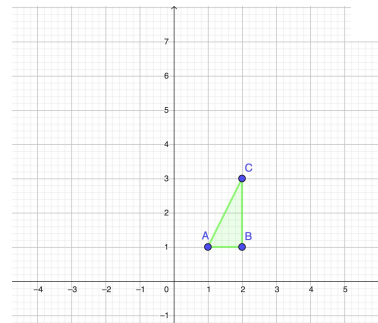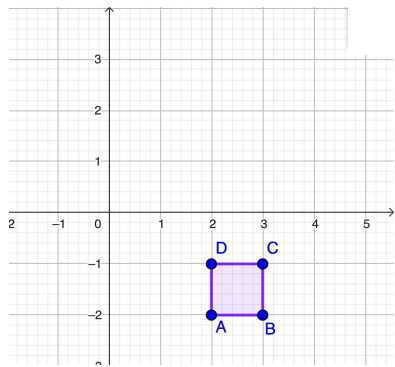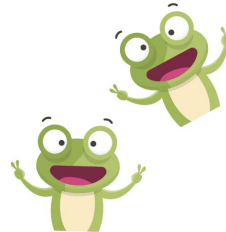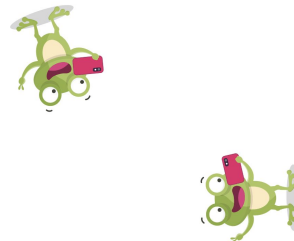STATE if the figures below represent a rotation, reflection or translation.

**#20**

STATE if the movements below represent a rotation, reflection or translation.

Open a drawer

**#22**

STATE if the movements below represent a rotation, reflection or translation.

Moving a box on a conveyor belt

**#21**

STATE if the movements below represent a rotation, reflection or translation.

Advance a clock 30 minutes

**#23**

STATE if the movements below represent a rotation, reflection or translation.

The movement of the ferris wheel at the fair

## #24

STATE if the movements below represent a rotation, reflection or translation.

**Look in a mirror**

## #26

STATE if the movements below represent a rotation, reflection or translation.

**Move a train in a straight line**

## #25

STATE if the movements below represent a rotation, reflection or translation.

**Set the clock back 15 minutes**

## #27

STATE if the movements below represent a rotation, reflection or translation.
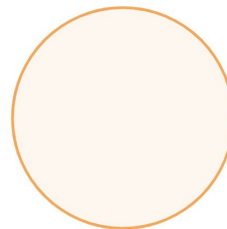
**Make a left turn**

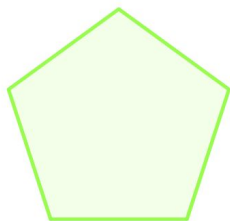STATE if the movements below represent a rotation, reflection or translation.

**Turn around**

How many lines of symmetry do you find in this figure?

How many lines of symmetry do you find in this figure?

# TASK CARDS - ANSWERS

| | | | | | |
|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 |

| | | | | | |
|---|---|---|---|---|---|
| **1** Reflection | **2** Translation | **3** Reflection | **4** Rotation | **5** Rotation | **6** Reflection |
| **7** Translation | **8** Rotation | **9** Translation | **10** Rotation | **11** A'(-1,1) B'(-3,1) C'(-2,3) | **12** A'(2,2) B'(3,2) C'(3,1) D'(2,1) |
| **13** Reflection | **14** Reflection | **15** Translation | **16** Rotation | **17** Translation | **18** Rotation |
| **19** Reflection | **20** Translation | **21** Rotation | **22** Translation | **23** Rotation | **24** Reflection |
| **25** Rotation | **26** Translation | **27** Rotation | **28** Rotation | **29** 5 | **30** Infinity |