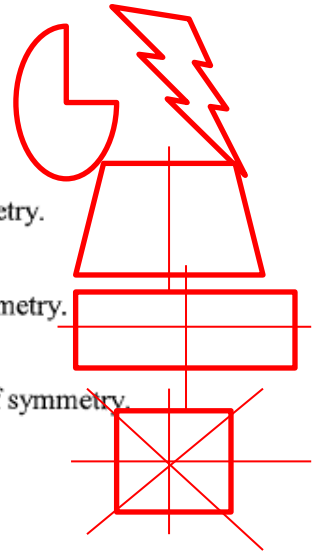


# Unit 10 Study Guide

## Symmetry & Reflection

Name Answer Key Date \_\_\_\_\_

1. Draw a shape that has no lines of symmetry. **answer will vary**
2. Draw a shape that has exactly 1 line of symmetry. Draw the line of symmetry.
3. Draw a shape that has exactly 2 lines of symmetry. Draw the lines of symmetry.
4. Draw a shape that has more than two lines of symmetry. Draw the lines of symmetry.
5. Which figure below is a translation (slide) of the original figure?



Original

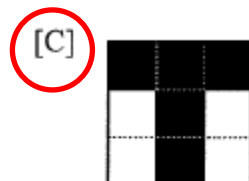


# Answer Key

6. Which figure below shows the original figure rotated (turned) counterclockwise  $\frac{1}{4}$  turn?



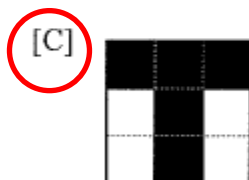
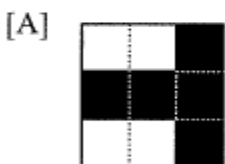
Original



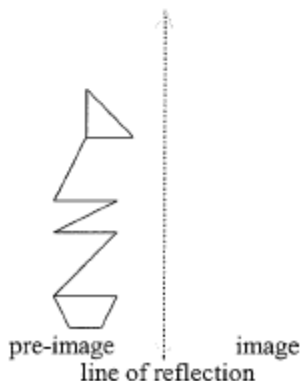
7. Which figure below shows the original figure rotated (turned) clockwise  $\frac{1}{4}$  turn?



Original

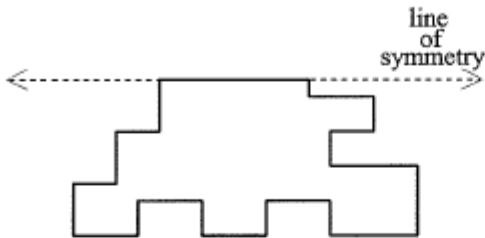


8. Use a transparent mirror to draw the reflection of the pre-image.



# Answer Key

9. Use a transparent mirror to draw the other half of the figure across the line of symmetry.



10. Fill in the table of equivalent fractions, decimals, and percents.

| Fraction      | Decimal     | Percent     |
|---------------|-------------|-------------|
| $\frac{1}{4}$ | <b>0.25</b> | <b>25%</b>  |
|               | 0.75        |             |
| <b>6/10</b>   | <b>0.6</b>  | 60%         |
| <b>1/10</b>   | 0.10        | <b>10%</b>  |
| <b>90/100</b> | <b>0.90</b> | 90%         |
| $\frac{6}{6}$ | <b>1.0</b>  | <b>100%</b> |

11. Add or subtract.

a.  $\frac{5}{5}$  or **1** =  $\frac{2}{5} + \frac{3}{5}$

b.  $\frac{4}{3}$  =  $\frac{2}{3} + \frac{2}{3}$

c.  $\frac{3}{3} - \frac{1}{3}$  =  **$\frac{2}{3}$**

d.  $\frac{2}{5} - \frac{1}{5}$  =  **$\frac{1}{5}$**

# Answer Key

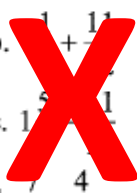
12. Add or subtract.

a.  $\frac{12}{13} + \frac{16}{17}$

b.  $\frac{1}{5} + \frac{11}{7}$

c.  $1\frac{5}{7} - \frac{1}{2}$

d.  $\frac{7}{8} - \frac{4}{5}$



13. Add.

$$6 + (-4) = 2$$

14. Add.

$$4 + (-2) = 2$$

15. Add.

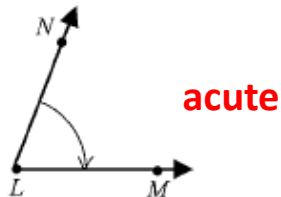
$$-3 + 2 = -1$$

16. Miss Paul had \$50.90 in her saving account. She withdrew \$10.39. A week later, she deposited \$10.05. What is the new balance in her saving account? Write a number model to show what you did.

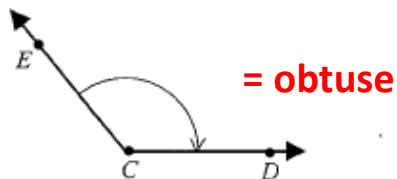
$$\text{\$}50.91 - 10.39 = \text{\$}40.52 + 10.05 = \text{\$}50.57$$

Measure each angle below as accurately as you can. From the following, choose the type for each angle: acute, right, obtuse, straight, or reflex.

17.



18.



19. Locate the position of the decimal point in the quotient.  
 $51.85 = 259.25 \div 5$

20. Locate the position of the decimal point in the product.  
 $2.52 * 54 = 136.08$