# **Fourth Grade Math Essential Standards**

Learning Objective # 1:



"I can describe two dimensional figures using different characteristics such as: parallel or perpendicular lines or by angle measurement."

Practice:

1. Which figures below have perpendicular sides?



- 2. Does the quadrilateral below have any perpendicular lines or parallel lines? If so, identify them on figure.
  - a. No, there are no perpendicular or parallel lines.
  - b. Yes, there are 2 sets of perpendicular lines and 1 set of parallel lines.
  - c. Yes, there are 2 parallel lines
  - d. Yes, there are 2 perpendicular lines.



### Learning Objective # 2:

# *"*I can solve measurement word problems using all four operations." *Practice:*

3. Alan went on a bike ride a few nights last week. On Monday, he rode for 45 minutes. On Tuesday, he rode for 30 minutes, and on Wednesday and Thursday he rode for 50 minutes total. How much total time did Alan ride his bike for last week?

- a. 1 hour and 45 minutes
- b. 2 hours

c. 2 hours and 5 minutes

d. 2 hours and 45 minutes

4. Sophia has \$10 to spend at the grocery store. She bought bananas for \$1.75, bread for \$2.15, and peanut butter for \$5.20. How much money will she receive in change?

a. \$0.90 b. \$1.90 c. \$1.09 d. \$0.99

#### Learning Objective # 3:

# "I can use an algorithm (formula) to find the area and perimeter of a rectangle and justify my answer."

#### Practice:

5. Mike is building a fence around his rectangular dog run. One side of the yard is 42 feet long and another side is 45 feet long. How many feet of fencing should Mike buy to put around his dog run?

a. 169 feetb. 174 feetc. 185 feetd. 194 feet

6. Barbara needs to build a cage for her bunny. It will need to have an area of 25 sq. feet. What is the length of each side?

a. 6 feetb. 4 feetc. 7 feetd. 5 feet

## Learning Objective # 4:

# " I can convert in the same system of measurement, e.g., U.S. Customary, metric system, and time."

#### Practice:

7. Alex went to the skate park with her friends for 31/2 hours. How many minutes was she at the skate park?

a. 310 minutes

b. 210 minutes

- c. 225 minutes
- d. 270 minutes

8. Layla made 1,700 milliliters of lemonade for her party. Which container below has a greater capacity than Layla's lemonade?

- a. a 1 liter bottle of apple juice
- b. a 2 liter bottle of apple juice from which 500 milliliters has been removed
- c. a 1 liter bottle of water and a 500 milliliter bottle of tea
- d. a 2 liter bottle of water

### Learning Objective # 5:

# *"* I can explain the concepts of angle measurement."

#### Practice:

9. Look at the angle below. If the top ray in the angle has made 90 turns, then what fraction below represents the angle?



10. If a sprinkler turns 1 degree every second, what will the angle measure when it has turned for 3 minutes?

- a. 90 degrees
- b. 120 degrees
- c. 180 degrees
- d. 60 degrees

### Learning Objective # 6:

# " I can solve multistep word problems with all four operations including estimation."

11. Betty baked 4 trays of 12 cookies. After they cooled she divided the cookies evenly into 6 bags. How many cookies did Betty put in each bag?

- a. 10 cookies
- b. 8 cookies
- c. 6 cookies

12. Six adults and 3 classes of 30 students were going on a field trip to the zoo by bus. If each bus holds 34 passengers, how many buses are needed?

a. 2 buses

b. 3 buses

c. 4 buses

# Learning Objective # 8:

arphi " I can analyze an angle to find its missing parts."

13. If angle ADC is 100°, what is the measurement of angle ADB?

