

## 4<sup>th</sup> Grade: Unit 8 Skill Overview

Use the Self-Assessment to help you reflect on your progress towards our math goals in Unit 8. Below you will find examples of the types of problems you have completed in this unit. The examples may be used as additional practice if needed. Refer to your Student Reference Book for additional information and practice.

### Skill

### Examples

- ① Use addition, subtraction, multiplication, and division to solve multistep number stories.

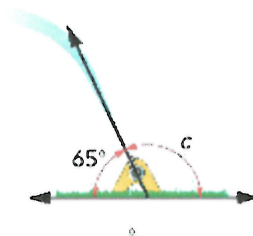


At the last high school basketball game, many of the students sold concessions to raise money for charity. One concession stand sold 157 trays of nachos at \$4 each, and another sold 209 bags of popcorn at \$3 each.

Which concession stand item made more money? \_\_\_\_\_

How much more money? \$

- ② Find missing real-life angle measures.



$c =$  \_\_\_\_\_

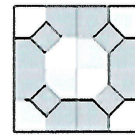
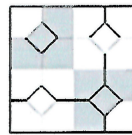
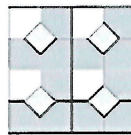
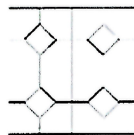
Equation:

- ③ Identify shapes with line symmetry and draw lines of symmetry.



For each pattern below, use a straightedge to draw all the lines of symmetry and record the number of lines of symmetry.

① **Bow-Tie Pattern**



lines of symmetry:

- ④ Solve computation problems involving decimals by converting to fractions, computing, and then converting back to a decimal.



Deja draws a line segment that is 6.5 centimeters long. Then she makes the line segment 2.7 centimeters longer. How long is the line segment now?

Answer: \_\_\_\_\_ centimeters

- 5 Find equivalent names for numbers.



1

|       |
|-------|
| 9.873 |
|       |
|       |
|       |
|       |
|       |

2

|                 |
|-----------------|
| $3\frac{7}{12}$ |
|                 |
|                 |
|                 |
|                 |
|                 |

- 6 Create a line plot and answer questions using the data.



Business

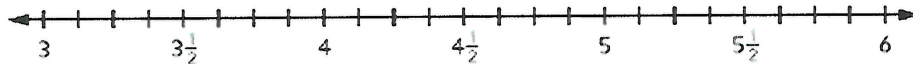
| Height         | Length          |
|----------------|-----------------|
| $3\frac{1}{2}$ | 6               |
| $3\frac{5}{8}$ | $6\frac{1}{2}$  |
| $3\frac{5}{8}$ | $8\frac{5}{8}$  |
| $3\frac{3}{4}$ | $6\frac{3}{4}$  |
| $3\frac{7}{8}$ | $7\frac{1}{2}$  |
| $3\frac{7}{8}$ | $8\frac{7}{8}$  |
| 4              | 9               |
| $4\frac{1}{8}$ | $9\frac{1}{2}$  |
| $4\frac{1}{2}$ | $10\frac{3}{8}$ |
| $4\frac{3}{4}$ | 11              |
| 5              | $11\frac{1}{2}$ |
| 6              | 12              |

Personal

| Height         | Length         |
|----------------|----------------|
| $3\frac{5}{8}$ | $5\frac{1}{8}$ |
| $4\frac{3}{8}$ | $5\frac{3}{4}$ |
| $4\frac{3}{4}$ | $6\frac{1}{2}$ |
| $5\frac{1}{4}$ | $7\frac{1}{4}$ |
| $5\frac{1}{2}$ | $8\frac{1}{8}$ |
| $5\frac{3}{4}$ | $8\frac{3}{4}$ |
| 6              | $9\frac{1}{2}$ |

Plot the heights of all the business and personal envelopes on the line plot below.

Title:



\_\_\_\_\_

7 Compute with fractions.

MJ2  
300-301  
306-307

Students in a teen living class are sewing children's shorts for a fundraiser. They will sell each pair of shorts for \$7.50. Use the information in the table to solve the number stories. Include drawings or equations to show how you solved each problem.

Cotton fabric: 45" width



| Size | Fabric Needed (yards) | SRB<br>03/17<br>191/163 |
|------|-----------------------|-------------------------|
| XS   | $\frac{5}{8}$         |                         |
| S    | $\frac{3}{4}$         |                         |
| M    | $\frac{7}{8}$         |                         |
| L    | 1                     |                         |
| XL   | $1\frac{1}{8}$        |                         |
| XXL  | $1\frac{1}{4}$        |                         |

- 1 Menique wants to sew 3 pairs of XXL shorts. How much fabric will she need? \_\_\_\_\_ yard(s)

A manufacturer of dry puppy food offers the following feeding guidelines for small and toy breeds based on the age of the puppy. All food measurements are given in cups per day. Use the information in the table below to solve the number stories. Use drawings, tables, or equations to show what you did.

SRB  
03/17  
191/163

| Feeding Guidelines for Small and Toy Breeds (Cups per Day) |                |                |                |                |
|--|----------------|----------------|----------------|----------------|
| Puppy Weight (lb)  | 6-11 Weeks     | 3-4 Months     | 5-7 Months     | 8-12 Months    |
| 1  | $\frac{1}{2}$  | $\frac{1}{2}$  | $\frac{1}{4}$  | $\frac{1}{8}$  |
| 3  | 1              | 1              | $\frac{5}{8}$  | $\frac{3}{8}$  |
| 5  | $1\frac{3}{8}$ | $1\frac{3}{8}$ | $\frac{7}{8}$  | $\frac{1}{2}$  |
| 10   | $2\frac{1}{4}$ | 2              | $1\frac{1}{4}$ | $\frac{3}{4}$  |
| 15   | 3              | $2\frac{3}{4}$ | $1\frac{3}{4}$ | 1              |
| 20   | $3\frac{1}{2}$ | $3\frac{1}{4}$ | $2\frac{1}{4}$ | $1\frac{1}{4}$ |

- 1 Santiago rescued two shelter puppies. Buddy is 5 months old and weighs about 5 pounds. Cody is 6 weeks old and weighs about 20 pounds.

Santiago wants to buy enough food to feed Buddy and Cody for 2 weeks. Each bag of food sold at the store weighs 6 pounds. 1 cup of food weighs about 4 ounces.

How many bags of food does Santiago need? \_\_\_\_\_ bags