

# 7TH GRADE COMMON CORE MATH



## Number and Proportional Relationships (7.NF.A.1-2)

Analyze proportional relationships and use them to solve real-world and mathematical problems.

### Finding the Unit Rate

- A table is a comparison of two numbers or measurements.
- A ratio is a way to compare the numbers in a table or graph.
- A unit rate is one that is measured as a quantity of 1.

**Problem:** Morgan bought 12 lbs of strawberries for \$12.00. What was the unit price per pound? Tina bought 10 lbs of apples for \$10.00. What was the unit price per pound?

$\frac{\$12.00}{12 \text{ lbs}} = \frac{x}{1}$ $12x = 12.00$ $x = \$1.00$ <p>\$1.00 per pound</p>	<p>1. Multiply the denominators.</p> <p>2. Divide both sides by the variable.</p>	$\frac{\$10.00}{10 \text{ lbs}} = \frac{x}{1}$ $10x = 10.00$ $x = 1.00$ <p>\$1.00 per pound</p>
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## How to Determine the Relationship in Proportions

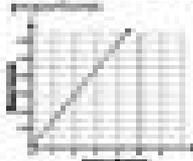
**Write a Table:**  
Organize data of the problem in a table. This helps you see the relationship.

10	10
20	20
30	30
40	40
50	50

**Write a Table:**  
List each unit rate of the problem in a table. This helps you see the relationship.

10	10
20	20
30	30
40	40
50	50

**Draw a Graph:**  
If the graph is a straight line, the relationship is proportional. The slope is 10:10.



## Equivalent Proportions

The concept of proportionality is always the same. There are 3 ways to write a proportion: a table, a graph, or an equation.

**Table:**

10	10
20	20
30	30
40	40
50	50



**Find the equation:**  
The equation is  $y = 1x$ .

**Write an Equation:**

## Statistics and Probability

Analyze different processes such as sampling, data distribution, and inference.

### Probability

Probability is the likelihood of an event to occur. It is measured as a percentage.

**Experimental Probability:** The ratio of the number of times an event occurs to the number of possible outcomes.

$$P(A) = \frac{\text{Number of times event A occurs}}{\text{Number of trials}}$$

**Theoretical Probability:** The ratio of the number of times an event is expected to occur to the number of possible outcomes.

$$P(A) = \frac{\text{Number of times event A occurs}}{\text{Number of trials}}$$



**Roll a die:**

Roll a 1: 1 out of 6 (1/6)

Roll a 2: 1 out of 6 (1/6)

Roll a 3: 1 out of 6 (1/6)



**Roll a coin:**

Roll a 1: 1 out of 2 (1/2)

Roll a 2: 1 out of 2 (1/2)

Roll a 3: 1 out of 2 (1/2)

### Experimental Results

Experimental results are the results of an experiment. They are usually close to the theoretical results.

#### Experimental Results

Roll a die 100 times. The theoretical probability of rolling a 1 is 1/6. The experimental probability is 17/100. The experimental probability is close to the theoretical probability.

Roll a coin 100 times. The theoretical probability of rolling a 1 is 1/2. The experimental probability is 53/100.

$$P(1) = \frac{17}{100}$$

Roll a coin 100 times.

$$P(1) = \frac{53}{100}$$

$$P(1) = \frac{1}{2}$$

#### Experimental Results

Roll a die 100 times. The theoretical probability of rolling a 1 is 1/6. The experimental probability is 17/100. The experimental probability is close to the theoretical probability.

Roll a coin 100 times. The theoretical probability of rolling a 1 is 1/2. The experimental probability is 53/100.

17	17	17
17	17	17
17	17	17

STANDARDIZED TESTING REVIEW

# Grade 7 Math Common Core Review

**L Reisser**



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