

1.5 Subtracting Rational Numbers

Name /Date /Period: _____ / _____ / _____

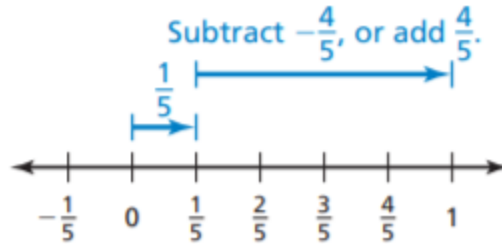
Learning Objective: I can apply the rule for _____ integers to subtracting _____.

Words To subtract rational numbers, use the same rules as you used for subtracting integers.

Numbers

$$\frac{1}{5} - \left(-\frac{4}{5}\right) = \frac{1}{5} + \frac{4}{5}$$
$$= \frac{5}{5}$$
$$= 1$$

Model



HINT: You can use the “2 line” method” too!

EXAMPLE 1 Subtracting Rational Numbers

Find $-4\frac{1}{7} - \frac{5}{7}$.

Rewrite the difference as a sum by adding the opposite.

Try It Find the difference. Write your answer in simplest form.

1. $-3\frac{1}{3} - \frac{2}{3}$

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

EXAMPLE 2 Subtracting Rational Numbers

Find $2.4 - 5.6$.

Rewrite the difference as a sum by adding the opposite.

Try It Find the difference.

3. $-2.1 - (-3.9)$

4. $-1.84 - (-6.3)$

EXAMPLE 4 Finding Distance

Find the distance between -6.4 and -4.8.

Try It Find the distance between two numbers.

5. -3 and 9

6. $-1\frac{3}{4}$ and $2\frac{1}{4}$ **1.3 Modeling Real Life**

Year	Profit (millions of dollars)
2013	-1.7
2014	-4.75
2015	1.7
2016	0.8
2017	3.2

View as a class and discuss.

Assessment For Learning:

- Find the difference of rational numbers by reasoning about absolute values.
- Model subtraction of rational numbers on a number line.
- Find distances between numbers.

Homework:

- **REVIEW -- Chapter 1**
- **Do any missing work to help you study for the test.**

Language Objective: Write the rule for subtracting rational numbers. You may use the sentence frame.
