

# Fluency with Rational Numbers

## Section 1: Comparing and Ordering

1. Compare the numbers in each pair.

Use the symbols  $<$ ,  $>$ , or  $=$ .

Explain your thinking in two ways.

a)  $1.4$  \_\_\_\_\_  $\frac{8}{5}$

b)  $\frac{5}{6}$  \_\_\_\_\_  $0.75$

c)  $2\frac{3}{20}$  \_\_\_\_\_  $2.3$

2. Order these numbers from greatest to least.

$1.05$ ,  $\frac{6}{4}$ ,  $1\frac{2}{10}$ ,  $1.45$ ,  $\frac{14}{5}$

Explain the strategies you used.

**Fluency with Rational Numbers (cont'd)**

3. Diwali recorded the daily high temperature in her city for one week.

Day	Daytime High Temperature (°C)
Monday	+1
Tuesday	-2
Wednesday	+2
Thursday	-4
Friday	-5
Saturday	-10
Sunday	-9

Order the temperatures from warmest to coldest.

Explain the strategy you used.

Which day had the coldest daytime high temperature?

**Section 2: Operations with Fractions**

1. Calculate each sum or difference.

a)  $\frac{3}{10} + \frac{3}{5} + \frac{1}{2} + \frac{1}{5}$

b)  $1\frac{9}{10} - \frac{2}{5} - \frac{1}{2} + \frac{1}{5}$

2. Estimate and then calculate the value of each expression.

a)  $2\frac{5}{8} + 1\frac{3}{4}$

b)  $\frac{17}{6} - 1\frac{2}{3}$

3. Determine the following products.

a)  $\frac{1}{3} \times \frac{4}{5}$

b)  $1\frac{3}{4} \times 2\frac{1}{2}$

**Fluency with Rational Numbers (cont'd)**

4. Calculate each quotient using a method of your choice.  
Simplify your answer, when possible.

a)  $\frac{2}{7} \div \frac{5}{14}$

b)  $2\frac{1}{3} \div \frac{6}{5}$

5. Dani has a piece of ribbon  $2\frac{3}{4}$  yards (yds) long.

How many pieces that are  $\frac{1}{2}$  yard long can Dani cut?

How much ribbon will be left over?

Name \_\_\_\_\_ Date \_\_\_\_\_

Number  
Readiness Tasks

## Fluency with Rational Numbers (cont'd)

### Section 3: Operations with Integers

1. Use a strategy of your choice to calculate the value of each expression.

a)  $7 + (-2)$

b)  $(-3) + 7 - (-2)$

2. Determine each product.

a)  $(+6) \times (-6)$

b)  $(-10) \times (+2)$

c)  $(-4) \times (-4)$

Name \_\_\_\_\_ Date \_\_\_\_\_

Number  
Readiness Tasks

## Fluency with Rational Numbers (cont'd)

3. Divide.

a)  $\frac{-25}{+5}$

b)  $(+21) \div (-7)$

c)  $(-90) \div (-15)$

4. Evaluate.

Show your work.

a)  $8 \times (-3) + 0 \div 12 - (-9)$

b)  $-12 + 9(-5 + 4) \div (-3) + 7$