3.3 Independent Practice

COMMON CORE 6.NS.7, 6.NS.7a, 6.NS.7b

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22. Rosa and Albert receive the same amount of allowance each week. The table shows what part of their allowance they each spent on video games and pizza.

	Video games	Pizza
Rosa	0.4	$\frac{2}{5}$
Albert	$\frac{1}{2}$	0.25

a. Who spent more of their allowance on video games? Write an inequality to compare the portion spent on video games.

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b. Who spent more of their allowance on pizza? Write an inequality to compare the portion spent on pizza.

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c. **Draw Conclusions** Who spent the greater part of their total allowance? How do you know?

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23. A group of friends is collecting aluminum for a recycling drive. Each person who donates at least 4.25 pounds of aluminum receives a free movie coupon. The weight of each person's donation is shown in the table.

	Brenda	Claire	Jim	Micah	Peter
Weight (lb)	4.3	5.5	$6\frac{1}{6}$	$\frac{15}{4}$	$4\frac{3}{8}$

a. Order the weights of the donations from greatest to least.

_____

b. Which of the friends will receive a free movie coupon? Which will not?

_____

c. **What If?** Would the person with the smallest donation win a movie coupon if he or she had collected $\frac{1}{2}$ pound more of aluminum? Explain.

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24. Last week, several gas stations in a neighborhood all charged the same price for a gallon of gas. The table below shows how much gas prices have changed from last week to this week.

Gas Station	Gas and Go	Samson Gas	Star Gas	Corner Store	Tip Top Shop
Change from last week (in cents)	-6.6	5.8	$-6\frac{3}{4}$	$\frac{27}{5}$	$-5\frac{5}{8}$

a. Order the numbers in the table from least to greatest.

_____

b. Which gas station has the cheapest gas this week? _____

c. **Critical Thinking** Which gas station changed their price the least this week?

_____

H.O.T. **FOCUS ON HIGHER ORDER THINKING**

25. **Analyze Relationships** Explain how you would order from least to greatest three numbers that include a positive number, a negative number, and zero.

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26. **Critique Reasoning** Luke is making pancakes. The recipe calls for 0.5 quart of milk and 2.5 cups of flour. He has $\frac{3}{8}$ quart of milk and $\frac{18}{8}$ cups of flour. Luke makes the recipe with the milk and flour that he has. Explain his error.

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27. **Communicate Mathematical Ideas** If you know the order from least to greatest of 5 negative rational numbers, how can you use that information to order the absolute values of those numbers from least to greatest? Explain.

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Ready to Go On?
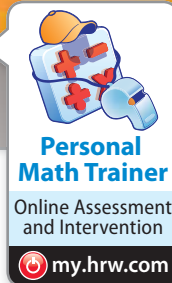
3.1 Classifying Rational Numbers

1. Five friends divide three bags of apples equally between them. Write the division represented in this situation as a fraction. _____
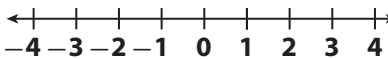
Write each rational number in the form $\frac{a}{b}$, where a and b are integers.

2. $5\frac{1}{6}$ _____

3. -12 _____

Determine if each number is a whole number, integer, or rational number. Include all sets to which each number belongs.

4. -12 _____

5. $\frac{7}{8}$ _____

3.2 Identifying Opposites and Absolute Value of Rational Numbers

6. Graph -3, $1\frac{3}{4}$, -0.5, and 3 on the number line.

$$\xleftarrow{\quad} \overset{-4\ -3\ -2\ -1\ \ 0\ \ 1\ \ 2\ \ 3\ \ 4}{\rule{5cm}{0.4pt}} \xrightarrow{\quad}$$

7. Find the opposite of $\frac{1}{3}$ and of $-\frac{7}{12}$. _____

8. Find the absolute value of 9.8 and of $-\frac{10}{3}$. _____

3.3 Comparing and Ordering Rational Numbers

9. Over the last week, the daily low temperatures in degrees Fahrenheit have been -4, 6.2, $18\frac{1}{2}$, -5.9, 21, $-\frac{1}{4}$, and 1.75. List these numbers in order from greatest to least.

_____

? ESSENTIAL QUESTION

10. How can you order rational numbers from least to greatest?

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COMMON CORE

Assessment Readiness

Selected Response

1. Suki split five dog treats equally among her six dogs. Which fraction represents this division?

- (A) $\frac{6}{5}$ of a treat
- (C) $\frac{1}{5}$ of a treat
- (B) $\frac{5}{6}$ of a treat
- (D) $\frac{1}{6}$ of a treat

2. Which set or sets does the number 15 belong to?

- (A) whole numbers only
- (B) rational numbers only
- (C) integers and rational numbers only
- (D) whole numbers, integers, and rational numbers

3. Which of the following statements about rational numbers is correct?

- (A) All rational numbers are also whole numbers.
- (B) All rational numbers are also integers.
- (C) All rational numbers can be written in the form $\frac{a}{b}$, where a and b are integers and $b \neq 0$.
- (D) Rational numbers cannot be negative.

4. Which of the following shows the numbers in order from least to greatest?

- (A) $-\frac{1}{5}, -\frac{2}{3}, 2, 0.4$
- (B) $2, -\frac{2}{3}, 0.4, -\frac{1}{5}$
- (C) $-\frac{2}{3}, 0.4, -\frac{1}{5}, 2$
- (D) $-\frac{2}{3}, -\frac{1}{5}, 0.4, 2$

5. What is the absolute value of -12.5?

- (A) 12.5
- (C) -1
- (B) 1
- (D) -12.5

6. Which number line shows $-\frac{1}{4}$ and its opposite?
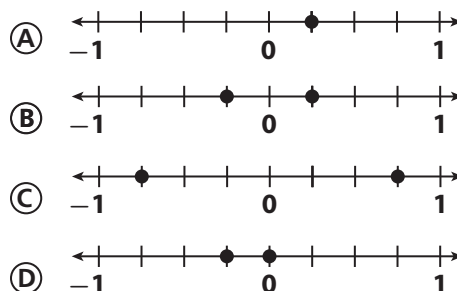
7. Horatio climbed to the top of a ladder that is 10 feet high. Which number is the opposite of the number that represents Horatio's height?

- (A) -10
- (C) 0
- (B) 10
- (D) $\frac{1}{10}$

Mini-Task

8. The table shows the heights in feet of several students in Mrs. Patel's class.

Name	Height (ft)
Olivia	$5\frac{1}{4}$
James	5.5
Carmela	4.9
Feng	5

a. Write each height in the form $\frac{a}{b}$.

_____

b. List the heights in order from greatest to least.

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