

6.3 Exercises



Vocabulary and Concept Check

1. **NUMBER SENSE** Which statement is *not* true?
- a. On a number line, $-2\frac{1}{6}$ is to the left of $-2\frac{2}{3}$.
 - b. $-2\frac{2}{3}$ is less than $-2\frac{1}{6}$.
 - c. $-2\frac{1}{6}$ is greater than $-2\frac{2}{3}$.
 - d. On a number line, $-2\frac{2}{3}$ is to the left of $-2\frac{1}{6}$.
2. **NUMBER SENSE** Is a negative decimal *always*, *sometimes*, or *never* equal to a positive decimal? Explain.

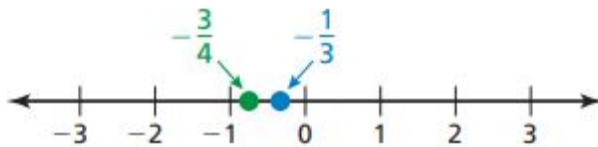
3. **NUMBER SENSE** On a number line, is -2.06 or -2.6 farther to the left?



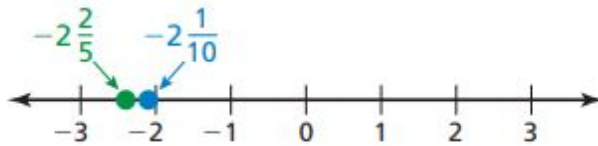
Practice and Problem Solving

Find a fraction or mixed number that is between the two numbers.

4.



5.



Copy and complete the statement using $<$ or $>$.

14. $-1\frac{5}{6}$ $-1\frac{3}{4}$

16. -0.12 -0.05

Order the numbers from least to greatest.

4 20. $-2\frac{3}{10}$, $-2\frac{2}{5}$, -2 , $-2\frac{1}{2}$, -3

25. **LOW TIDE** The daily water level is recorded for seven straight days at a tide station on the Big Marco River in Florida. On which days is the water level higher than on the previous day? On which days is it lower?

Day	Sun.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
Water Level of the Day (feet)	$-\frac{3}{25}$	$-\frac{7}{20}$	$-\frac{27}{50}$	$-\frac{13}{20}$	$-\frac{16}{25}$	$-\frac{53}{100}$	$-\frac{1}{3}$

Higher than previous days _____

Lower than previous days _____



26. **PROBLEM SOLVING** A guitar tuner allows you to tune a guitar string to its correct pitch. The units on a tuner are measured in *cents*. The units tell you how far the string tone is above or below the correct pitch.

Guitar String	6	5	4	3	2	1
Number of Cents Away from the Correct Pitch	-0.3	1.6	-2.3	2.8	2.4	-3.6

- What number on the tuner represents a correctly tuned guitar string?
- Which strings have a pitch below the correct pitch?
- Which string has a pitch closest to its correct pitch?
- Which string has a pitch farthest from its correct pitch?
- The tuner is rated to be accurate to within 0.5 cent of the true pitch. Which string could possibly be correct?



- _____
- _____
- _____
- _____
- _____



Fair Game Review What you learned in previous grades & lessons

Graph the integer and its opposite. *(Section 6.1)*

28. -7

29. 40

30. 100

31. -15

32. **MULTIPLE CHOICE** You pay \$48 for 8 pounds of chicken. Which is an equivalent rate? *(Section 5.3)*

(A) \$44 for 4 pounds

(B) \$28 for 4 pounds

(C) \$15 for 3 pounds

(D) \$30 for 5 pounds

28.

29.

30.

31.

