

NAME \_\_\_\_\_ DATE \_\_\_\_\_ PERIOD \_\_\_\_\_

**Express each decimal as a fraction or mixed number in simplest form.**

1. 0.75

2. 0.64

3. 0.75

4. 0.45

5. 1.825

6. 0.95

7. 0.748

8. 0.482

9. 0.446

10. 5.06

11. 3.335

12. 12.06

**Express each fraction or mixed number as a decimal.**

13.  $\frac{7}{10}$

14.  $\frac{11}{20}$

15.  $2\frac{3}{8}$

16.  $\frac{9}{20}$

17.  $\frac{15}{16}$

18.  $\frac{8}{25}$

19.  $\frac{7}{16}$

20.  $2\frac{3}{10}$

21.  $5\frac{3}{5}$

22.  $\frac{11}{25}$

23.  $5\frac{4}{25}$

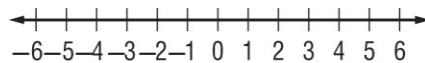
## Integers and Graphing

Generate an integer for each situation. Explain the meaning of zero in each situation.

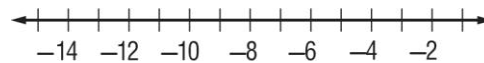
- |                      |                                   |
|----------------------|-----------------------------------|
| 1. a drop of 300feet | 2. an expansion of 5 cubic meters |
| 3. earn 30 points    | 4. reduce by 12 inches            |
| 5. gain 10 pounds    | 6. a drop of 10 degrees           |

Locate each set of integers on a number line.

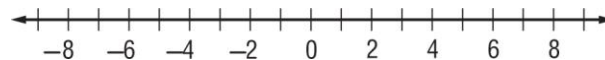
7.  $\{-4, -3, 2, 7\}$



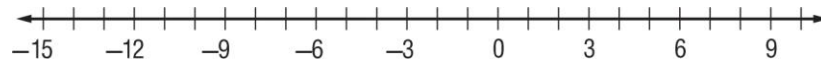
8.  $\{-15, -12, -4, -2\}$



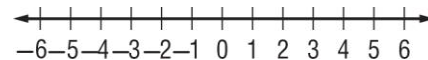
9.  $\{8, 3, -9, -5\}$



10.  $\{-14, -7, 8, -1\}$

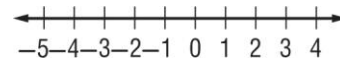


11.  $\{-6, -1, 0, 7\}$

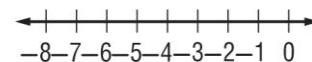


12. Ms. Solorio's small business had a profit of \$300 on Monday. Generate an integer to represent this profit.
13. The end of a cave is 120 meters below the surface of the earth. Generate an integer to represent this depth.

14. The low temperatures for three consecutive days were  $-6^{\circ}\text{F}$ ,  $3^{\circ}\text{F}$ , and  $7^{\circ}\text{F}$ . Locate this set of integers on a number line.



15. The lowest elevation in New Orleans, Louisiana, is  $-7$ feet. The lowest elevation in Long Beach, California, is  $-6$  feet. Locate this set of integers on a number line.



**Compare and Order Integers**

Fill in each  $\bigcirc$  with  $<$ ,  $>$ , or  $=$  to make a true statement. Use a number line if necessary.

1.  $-5 \bigcirc -66$

2.  $6 \bigcirc -66$

3.  $-777 \bigcirc -70$

4.  $-74 \bigcirc -74$

5.  $-898 \bigcirc -998$

6.  $0 \bigcirc 23$

7.  $56 \bigcirc -6$

8.  $-82 \bigcirc -12$

9.  $-6 \bigcirc 6$

10.  $90 \bigcirc 107$

11.  $7 \bigcirc -2,000$

12.  $-5 \bigcirc 0$

13.  $8 \bigcirc 56$

14.  $-5 \bigcirc -8$

15.  $-5 \bigcirc 0$

Order each set of integers from least to greatest. Use a number line if necessary.

16. 0, 3, -21, 56, -89, 8, -65, -56

17. 70, -9, 67, -78, 0, 54, -36, -19

18. 12, 8, -9, -12, 10, 16, 13

19. 65, 34, -50, 28, -64, -86

20. -4, 39, -14, 33, -30, 33, -70

21. -3, 77, 0, 41, -48, 6, -35

**Classify Rational Numbers****Express each fraction as a decimal. Use bar notation if necessary.**

1.  $\frac{16}{20}$

2.  $\frac{25}{120}$

3.  $2\frac{7}{8}$

4.  $\frac{1}{6}$

5.  $\frac{11}{40}$

6.  $4\frac{13}{50}$

7.  $\frac{55}{300}$

8.  $2\frac{1}{2}$

9.  $\frac{5}{9}$

10.  $2\frac{3}{4}$

11.  $\frac{9}{11}$

12.  $4\frac{1}{9}$

**Classify each number. Name all sets to which the number belongs.**

13.  $-\frac{1}{8}$

14. 15

15. -45

16.  $2.\bar{6}$

17.  $\frac{1}{12}$

18. -2.5

**Compare and Order Rational Numbers**Fill in each  $\bigcirc$  with  $<$ ,  $>$ , or  $=$  to make a true statement.

1.  $-4.1 \bigcirc -\frac{10}{3}$

2.  $-7\frac{3}{4} \bigcirc -3.7$

3.  $4\frac{2}{3} \bigcirc \frac{5}{4}$

4.  $0.02 \bigcirc \frac{1}{50}$

5.  $-5.25 \bigcirc -4.22$

6.  $-2 \bigcirc -1\frac{1}{6}$

7.  $1.5 \bigcirc 0.8$

8.  $-4\frac{1}{5} \bigcirc -4.2$

9.  $-\frac{2}{3} \bigcirc -0.6$

Order the following sets of numbers from least to greatest.

10.  $\left\{0.7, 0.755, \frac{5}{8}\right\}$

11.  $\left\{-3, -3.12, 1\frac{1}{2}\right\}$

12.  $\left\{2.88, -2.98, -2\frac{9}{10}\right\}$

13.  $\left\{\frac{5}{6}, \frac{4}{5}, 0.82\right\}$

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### ***Multiply Decimals by Decimals***

**Multiply.**

1.  $8.6 \times 10.5$

2.  $4.2 \times 0.1$

3.  $1.5 \times 7.6$

4.  $6.42 \times 0.21$

5.  $2.42 \times 0.2$

6.  $0.001 \times 0.02$

7.  $0.6 \times 600$

8.  $6.7 \times 5.8$

9.  $3.24 \times 7.7$

10.  $9.8 \times 3.62$

11.  $7.32 \times 7.7$

12.  $0.008 \times 0.008$

13.  $0.001 \times 49$

14.  $4.5 \times 0.2$

15.  $7.6 \times 2.3$

16.  $4.3 \times 4.9$

17.  $13.06 \times 5.9$

18.  $0.04 \times 7.25$

19.  $5.63 \times 7.1$

20.  $10.35 \times 7.1$

21.  $28.2 \times 2.9$