

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Period: \_\_\_\_\_

**Accentuate the Negative Unit REVIEW****Standards**

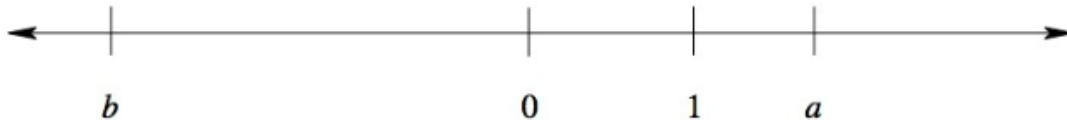
**7.NS.1b/c:** Understand  $p + q$  as the number located a distance  $|q|$  from  $p$ , in the positive or negative direction depending on whether  $q$  is positive or negative. Interpret sums of rational numbers by describing real-world contexts. Understand subtraction of rational numbers as adding the additive inverse,  $p - q = p + (-q)$ . Interpret differences of rational numbers by describing real-world contexts. [1, 2, 3]

**7.NS.1d:** Apply properties of operations as strategies to add and subtract rational numbers. [4-11]

**7.NS.3:** Solve real-world and mathematical problems involving the four operations with rational numbers. (Order of Operations) [1, 2]

**7.NS.2a/b/c:** Understand the rules for multiplying signed numbers. Interpret products of rational numbers by describing real world contexts. Understand that integers can be divided, and every quotient of integers (with non-zero divisor) is a rational number. Interpret quotients of rational numbers by describing real-world contexts. Apply properties of operations as strategies to multiply and divide rational numbers. [3-10]

1. A number line is shown below. The numbers 0 and 1 are marked on the line, as are two other numbers,  $a$  and  $b$ . Assume the number line is drawn to scale.

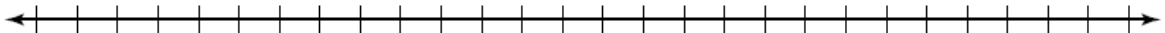


Using the number line above, which of the following numbers is negative? Choose all that apply. Explain your reasoning for your choices.

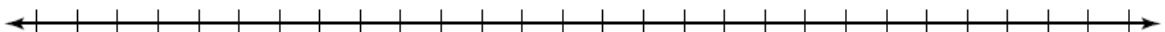
- |            |             |
|------------|-------------|
| a. $a - 1$ | b. $a - 2$  |
| c. $-b$    | d. $a + b$  |
| e. $a - b$ | f. $ab + 1$ |

Using the number lines below, complete and model each number sentence.

2.  $-4 + 10 =$



3.  $-3 - 12 =$



**Find the answer to each number sentence.**

4.  $6 - 10 =$

5.  $-7 + 15 =$

6.  $-1.2 - (-10) =$

7.  $21 - (-8) =$

8.  $12 + -9 =$

9.  $-7 - -9 =$

10.  $-7 + -9$

11.  $10 + -6 - -1 + 8 =$

**Solve.**

12.  $\frac{1}{4} \cdot -\frac{3}{7} =$

13.  $20 \cdot (-6) =$

14.  $-\frac{2}{3} \div \frac{2}{5} =$

15.  $\frac{-24}{-6} =$

16.  $-27 \div -9 \cdot -2 \cdot -1 =$

17.  $-12 \cdot (-10) \cdot (-6) =$

**18. Malique wants to take four of her friends to a movie. She knows it costs \$5.50 for a ticket and \$3.25 for popcorn.**

**a.** How much will it cost if she pays for the movie and popcorn for all five people?

**b.** Write a number sentence to show how you found the total cost.

**c.** Using your understanding of the distributive property, write a new number sentence that finds the total cost.

**Solve.**

**19.**  $(5 + -3) \times 4 - 2 + 5^2$

**20.**  $7 \times -2(-5 + -2 \times 3) \div 7$

**21.**  $4 - 4 \times 2 + 2 \times -1 + (4^2 - 10)$

**22.**  $2 \times (3 + -10) - 2^2 + (-3)^2$

23.  $5 \times 2 \times 3 + 12 \div 6$

24.  $(8 - 20) \div 2^2 - 5 \times -3$

25.  $20 - (60 \div (-2 \times 30) - 8) \times 2^2$

26.  $4^2 + \frac{-10}{2} + 13$

27.  $12 - 18 + 15 + -6 - 1 - 20$

28.  $23 - (2 - 3 \cdot 4)^2 + 6\frac{1}{4}$

29.  $(-4)(-2) - 6(2 - 5)$

30.  $14(2 + 3 - 2 \cdot 2) \div (4^2 - 3^2)$