Name: _____

1-5 Additional Practice

1. Find the sum of $\frac{2}{3} + \left(-\frac{1}{3}\right)$.

2. Is $-\frac{1}{3} - \frac{4}{5}$ positive, negative, or zero?

3. Find the value of the expression $(-8.6) + 7.2$.

4. Is $\frac{2}{5} - \left(-\frac{5}{6}\right)$ positive, negative, or zero?

5. Use the expression $-\frac{1}{3} - \left(-\frac{5}{12}\right)$.

   a. Which shows an equivalent addition expression?
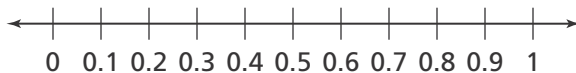
     Ⓐ $\frac{1}{3} + \frac{5}{12}$ Ⓑ $-\frac{1}{3} + \frac{5}{12}$

     Ⓒ $\frac{1}{3} + \left(-\frac{5}{12}\right)$ Ⓓ $-\frac{1}{3} + \left(-\frac{5}{12}\right)$

   b. Model with Math Draw the point on the number line that represents $-\frac{1}{3} - \left(-\frac{5}{12}\right)$. Ⓒ MP.4

$$0 \quad 0.1 \quad 0.2 \quad 0.3 \quad 0.4 \quad 0.5 \quad 0.6 \quad 0.7 \quad 0.8 \quad 0.9 \quad 1$$

   c. Find the value of the expression $-\frac{1}{3} - \left(-\frac{5}{12}\right)$.

6. Higher Order Thinking Write an absolute value expression you could use to find the absolute value of $3.1 + (-6.3)$.

7. The temperature one morning was $-4.7°F$ and rose to $11.6°F$ that night. Find the difference in the temperatures.

8. The bottom of a pylon is $3\frac{1}{2}$ yards below the ground. The top of the pylon is $2\frac{1}{2}$ yards above the ground. How tall is the pylon?

9. Manuel climbs a tower from ground level to an elevation of $135\frac{1}{2}$ feet. He then climbs down $27\frac{1}{4}$ feet. How far is Manuel from the ground?

10. When Sam simplified the expression $3.5 - (-4.1)$, she got -0.6. What mistake did Sam likely make when she simplified the expression?

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11. A researcher in a personal submarine begins at the surface of the ocean. The submarine descends 20.6 meters and then ascends $5\frac{7}{10}$ meters. What is the depth of the personal submarine?

Ⓐ -26.3 meters   Ⓑ -14.9 meters

Ⓒ 14.9 meters   Ⓓ 26.3 meters

12. Carter hikes from the top of a hill that is $120\frac{2}{3}$ feet above sea level down into a valley that is $43\frac{2}{3}$ feet below sea level. What is the difference in elevation between the top of the hill and the valley?