ALBERT

Name _____ Date _____

Adding and Subtracting Integers Worksheet

Grade 7 · Common Core 7.NS.A.1

> Apply and extend previous understandings of addition and subtraction to add and subtract rational numbers; represent addition and subtraction on a horizontal or vertical number line diagram.

Practice

Builds the skill step by step.

1. Add: $-7 + 4$

2. Add: $-5 + (-6)$

3. Subtract: $3 - 8$

4. Which is equal to $6 - (-2)$?

   A. $6 + 2$

   B. $6 - 2$

   C. $-6 + 2$

   D. $-6 - 2$

5. Subtract: $-4 - 5$

6. Add: $9 + (-9)$

7. Subtract: $-2 - (-7)$

8. The temperature is $-3°F$ and rises 8 degrees. Which expression gives the new temperature?

   A. $-3 - 8$

   B. $-3 + 8$

   C. $3 + 8$

   D. $8 - (-3)$

9. Add: $12 + (-15)$

10. Subtract: $0 - 6$

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On Level

Grade-level practice.

1. Add: $-\frac{3}{4} + \frac{1}{2}$

2. Subtract: $2.5 - 4.1$

3. Subtract: $-\frac{2}{3} - \frac{1}{6}$

4. What is the distance between -8 and 5 on a number line?

   A. 13

   B. 3

   C. -13

   D. -3

5. Add: $-3.75 + (-2.5)$

6. A diver at -12 m rises 5 m and then dives 9 m. Where is she now?

7. Evaluate: $-6 + 10 - (-3) - 8$

8. Which expression has a value of 0?

   A. $-4.5 - 4.5$

   B. $4.5 - (-4.5)$

   C. -4.5×1

   D. $-4.5 + 4.5$

9. Subtract: $\frac{1}{2} - (-\frac{3}{4})$

10. A bank balance is $-\$25.40$. A deposit of \$60 is made. What is the new balance?

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Challenge

Multi-step and word problems that stretch it.

1. The temperature at 6 a.m. was −9°F. By noon it was 14°F. By how many degrees did it rise?

2. Find the distance between $-\frac{7}{2}$ and $\frac{5}{4}$ on a number line.

3. Evaluate: $-2.4 - (-5.1) + (-3.7)$

4. If a is negative and b is positive, which must be negative?

   A. b − a

   B. a + b

   C. |a| + b

   D. a − b

5. A submarine at −150 m rises 85 m, then descends 40 m, then rises 30 m. What is its final depth?

6. Ella says $-5 - 3 = -2$. What mistake did she make, and what is the correct answer?

7. A football team gains 7 yards, loses 12 yards, then gains 4 yards. What is the total change in yards?

8. Find a number that you can add to $-\frac{2}{5}$ to get $\frac{3}{10}$.

9. The highest point in a state is 3,460 m and the lowest is −86 m. What is the difference in elevation?

10. Evaluate: $-\frac{1}{3} + \frac{5}{6} - \frac{3}{4}$