

Addition and Subtraction of Rational Numbers (Review)

Name: _____

Date: _____

1. $-3.51 + (-5.8) = \underline{\hspace{2cm}}$
2. $-1.32 + (-8.9) = \underline{\hspace{2cm}}$
3. Simplify: $-6 + [10 - (-9)]$
4. Simplify: $-3 + [7 - (-12)]$
5. $137 + -43$
6. Simplify: $-128 - (-46)$
7. Simplify: $-67 - (-34)$
8. The highest elevation in a small country occurs on a mountain 1232 meters above sea level, while the lowest elevation in the same country occurs at -27 meters (below sea level). What is the difference in elevation between the highest and lowest points?

none of these
9. A piece of equipment for an oil rig is designed to function in temperatures as low as -30° Celsius and as high as 105° Celsius. What is the temperature range that this equipment is designed to operate in?

none of these
10. If the temperature in Asheville, North Carolina is 15° F, how far would it have to fall to reach -5° F?
11. If you are traveling in an airplane at 20,000 feet, which of the following altitude changes would bring the plane to 8,000 feet?
12. The temperature at 6:00 am was -1° C. By 4:00 pm the temperature had risen 17° . What was the temperature at that time?
13. During one year the highest temperature was recorded in July at a record 106° F. The lowest temperature recorded was in January at a low of -17° F. What was the difference between the recorded high and recorded low temperatures?
14. Simplify: $-0.83 - 4.9 + 5.62 - 3.741$.
15. Simplify: $3.25 - 5.04 - 3.42 + 1.2$.
16. Subtract $-\frac{2}{3} - (-\frac{2}{5})$
17. Simplify the expression below.
$$(-0.4 - 2) + 1.3$$
18. Solve:
$$27 - (-9)$$