

Adding and Subtracting Integers: math test, Grade 7

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Suggested time: 45 minutes. Out of 20 points. Calculator allowed only when the problem says so.

1 Opposites and absolute value

/ 3 pts

(a) Write the opposite of -13 and of 4.5 . (b) Find $|-21|$ and $|17|$. (c) Which number is farther from 0, -15 or 12 ?

2 Adding and subtracting

/ 4 pts

Compute: (a) $-9 + (-6)$ (b) $14 + (-20)$ (c) $7 - 12$ (d) $-3 - (-11)$.

3 Distances

/ 4 pts

(a) Find the distance between -8 and 6 . (b) Find the distance between -13 and -5 . (c) A point is 7 units from -2 . Find both possible positions.

4 A day of weather

/ 4 pts

At 8 a.m. the temperature is -6°F . It rises 11 degrees by noon, then falls 16 degrees by midnight. (a) Temperature at noon? (b) Temperature at midnight? (c) How many degrees colder is midnight than 8 a.m.?

5 Rational numbers

/ 3 pts

Compute: (a) $-1.5 + (-2.75)$ (b) $0.8 - (-2.2)$ (c) $-\frac{1}{2} + \frac{3}{4}$.

6 True or false

/ 2 pts

Say whether each statement is true or false and justify. (a) The sum of an integer and its opposite is always 0. (b) If $a < b$, then $a - b$ is positive.



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