

Adding and Subtracting Integers: math test solutions, Grade 7 – download the PDF

Test solutions with the detailed point scale. Add up your points and spot what to review.

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

1 Opposites and absolute value

/ 3 pts

(a) **13** and **-4.5** (1 pt). (b) **21** and **17** (1 pt). (c) $|-15| = 15 > |12| = 12$, so **-15** is farther from 0 (1 pt).

2 Adding and subtracting

/ 4 pts

(a) **-15** (1 pt). (b) $14 - 20 = -6$ (1 pt). (c) $7 + (-12) = -5$ (1 pt). (d) $-3 + 11 = 8$ (1 pt).

3 Distances

/ 4 pts

(a) $|6 - (-8)| = 14$ (1 pt). (b) $|-5 - (-13)| = 8$ (1 pt). (c) $-2 + 7 = 5$ (1 pt) and $-2 - 7 = -9$ (1 pt).

4

A day of weather

/ 4 pts

(a) $-6 + 11 = 5$, so 5°F (1 pt). (b) $5 - 16 = -11$, so -11°F (1 pt). (c) $-6 - (-11) = 5$, so midnight is 5 degrees colder than 8 a.m. (2 pts: 1 for the subtraction, 1 for the answer).

5

Rational numbers

/ 3 pts

(a) -4.25 (1 pt). (b) $0.8 + 2.2 = 3$ (1 pt). (c) $-\frac{2}{4} + \frac{3}{4} = \frac{1}{4}$ (1 pt).

6

True or false

/ 2 pts

(a) True: $n + (-n) = 0$ (1 pt). (b) False: with $a = 2$ and $b = 5$, $a - b = -3$ is negative (1 pt).

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