

Multiplying and Dividing Rational Numbers: 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 Integers

/ 3 pts

a) -56 (1 pt). b) 54 (1 pt). c) -7 (1 pt).

2 Fractions

/ 4 pts

a) $-\frac{45}{60} = -\frac{3}{4}$ (1 pt). b) $\frac{3}{2} \cdot \frac{8}{3} = 4$ (1 pt). c) $-\frac{7}{8} \cdot \frac{12}{7} = -\frac{3}{2}$ (1 pt). d)
 $\frac{15}{4} \cdot \left(-\frac{2}{3}\right) = -\frac{5}{2}$ (1 pt).

3 Decimals

/ 3 pts

a) 0.45 (1 pt). b) $0.\overline{5}$ (1 pt). c) $1.8\overline{3}$ (1 pt).

4 Order of operations

/ 4 pts

a) $5 - 9 = -4$; $(-3)(-4) = 12$; $12 \div 2 = 6$; $-8 + 6 = -2$ (2 pts). b) $\frac{3}{4} \cdot \left(-\frac{2}{3}\right) = -\frac{1}{2}$
; then $\frac{1}{2} - \left(-\frac{1}{2}\right) = 1$ (2 pts).

5 Properties

/ 3 pts

a) $18 \cdot \left(-\frac{5}{6}\right) + 18 \cdot \frac{2}{9} = -15 + 4 = -11$ (2 pts). b) multiplicative inverse, because the numbers are reciprocals (1 pt).

6 Pool level

/ 3 pts

Drop: $6 \cdot \left(-\frac{7}{4}\right) = -\frac{42}{4} = -10.5$ (1 pt). Add the rain: $-10.5 + 2.5$ (1 pt). Net change: -8 inches, a drop of 8 inches (1 pt).



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