

Multiplying and Dividing Rational Numbers: math test, Grade 7 – download the PDF

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

1 Integers

/ 3 pts

No calculator. Compute. a) $(-7)(8)$ b) $(-9)(-6)$ c) $-84 \div 12$

2 Fractions

/ 4 pts

Compute and simplify. a) $\frac{5}{6} \cdot \left(-\frac{9}{10}\right)$ b) $1\frac{1}{2} \cdot 2\frac{2}{3}$ c) $-\frac{7}{8} \div \frac{7}{12}$ d) $3\frac{3}{4} \div \left(-1\frac{1}{2}\right)$

3 Decimals

/ 3 pts

Write as decimals (use a bar for repeating digits). a) $\frac{9}{20}$ b) $\frac{5}{9}$ c) $\frac{11}{6}$

4 Order of operations

/ 4 pts

Evaluate. a) $-8 + (-3)(5 - 9) \div 2$ b) $\frac{1}{2} - \frac{3}{4} \cdot \left(-\frac{2}{3}\right)$

5 Properties

/ 3 pts

a) Use the distributive property to compute $18 \left(-\frac{5}{6} + \frac{2}{9} \right)$. b) Name the property:

$$\left(-\frac{3}{5} \right) \left(-\frac{5}{3} \right) = 1.$$

6 Pool level

/ 3 pts

The water level of a pool drops $1\frac{3}{4}$ inches per day for 6 days. Then rain raises it by $2\frac{1}{2}$ inches. What is the net change?



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