MathVine - Pre-Algebra Name_____

Multiplying Fractions Date_____ Period_____

Multiply.

1) $\frac{4}{5} * -\frac{6}{6}$

2) $\frac{3}{4} * -\frac{3}{3}$

3) $\frac{1}{2} * \frac{1}{3}$

4) $\frac{1}{5} * -\frac{1}{4}$

5) $\frac{4}{6} * \frac{5}{7}$

6) $\frac{3}{10} * \frac{2}{9}$

7) $\frac{9}{5} * -\frac{7}{1}$

8) $\frac{5}{8} * \frac{1}{8}$

9) $\frac{2}{5} * -\frac{2}{5}$

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Multiplying Fractions Date_____ Period_____

Multiply.

1) $\frac{4}{5} * -\frac{6}{6}$

Answer: $-\frac{4}{5}$

2) $\frac{3}{4} * -\frac{3}{3}$

Answer: $-\frac{3}{4}$

3) $\frac{1}{2} * \frac{1}{3}$

Answer: $\frac{1}{6}$

4) $\frac{1}{5} * -\frac{1}{4}$

Answer: $-\frac{1}{20}$

5) $\frac{4}{6} * \frac{5}{7}$

Answer: $\frac{10}{21}$

6) $\frac{3}{10} * \frac{2}{9}$

Answer: $\frac{1}{15}$

7) $\frac{9}{5} * -\frac{7}{1}$

Answer: $-12\frac{3}{5}$

8) $\frac{5}{8} * \frac{1}{8}$

Answer: $\frac{5}{64}$

9) $\frac{2}{5} * -\frac{2}{5}$

Answer: $-\frac{4}{25}$

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Multiplying Fractions Date_____ Period_____

Solution Steps

1) $\frac{4}{5} * -\frac{6}{6}$

$\frac{(4 * -6)}{(5 * 6)}$

$\frac{(4^{2} * -6^{-}2)}{(5 * 3^{1})}$

$-\frac{4}{5}$

2) $\frac{3}{4} * -\frac{3}{3}$

$\frac{(3 * -3)}{(4 * 3)}$

$\frac{(3^{1} * -3)}{(4 * 3^{1})}$

$-\frac{3}{4}$

3) $\frac{1}{2} * \frac{1}{3}$

$\frac{(1 * 1)}{(2 * 3)}$

$\frac{1}{6}$

4) $\frac{1}{5} * -\frac{1}{4}$

$\frac{(1 * -1)}{(5 * 4)}$

$-\frac{1}{20}$

5) $\frac{4}{6} * \frac{5}{7}$

$\frac{(4 * 5)}{(6 * 7)}$

$\frac{(4^{2} * 5)}{(6^{3} * 7)}$

$\frac{10}{21}$

6) $\frac{3}{10} * \frac{2}{9}$

$\frac{(3 * 2)}{(10 * 9)}$

$\frac{(3^{1} * 2^{1})}{(10^{5} * 9^{3})}$

$\frac{1}{15}$

7) $\frac{9}{5} * -\frac{7}{1}$

Multiplying a fraction by and integer follows the same rules as multiplying fractions

An integer can be written as a fraction with a denominator of 1

$\frac{(9 * -7)}{(5 * 1)}$

$-12\frac{3}{5}$

8) $\frac{5}{8} * \frac{1}{8}$

$\frac{(5 * 1)}{(8 * 8)}$

$\frac{5}{64}$

9) $\frac{2}{5} * -\frac{2}{5}$

$\frac{(2 * -2)}{(5 * 5)}$

$-\frac{4}{25}$