MathVine - Pre-Algebra Name_____

Multiplying Fractions Date_____ Period_____

Multiply.

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

2) $\frac{3}{8} * -\frac{3}{8}$

3) $\frac{1}{3} * -\frac{4}{6}$

4) $\frac{1}{4} * \frac{5}{7}$

5) $\frac{8}{3} * \frac{4}{1}$

6) $\frac{1}{3} * -\frac{2}{7}$

7) $\frac{3}{10} * \frac{1}{4}$

8) $\frac{1}{7} * -\frac{6}{9}$

9) $\frac{5}{10} * \frac{3}{5}$

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Multiplying Fractions Date_____ Period_____

Multiply.

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

Answer: $\frac{1}{8}$

2) $\frac{3}{8} * -\frac{3}{8}$

Answer: $-\frac{9}{64}$

3) $\frac{1}{3} * -\frac{4}{6}$

Answer: $-\frac{2}{9}$

4) $\frac{1}{4} * \frac{5}{7}$

Answer: $\frac{5}{28}$

5) $\frac{8}{3} * \frac{4}{1}$

Answer: $10\frac{2}{3}$

6) $\frac{1}{3} * -\frac{2}{7}$

Answer: $-\frac{2}{21}$

7) $\frac{3}{10} * \frac{1}{4}$

Answer: $\frac{3}{40}$

8) $\frac{1}{7} * -\frac{6}{9}$

Answer: $-\frac{2}{21}$

9) $\frac{5}{10} * \frac{3}{5}$

Answer: $\frac{3}{10}$

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Solution Steps

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

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

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

$\frac{1}{8}$

2) $\frac{3}{8} * -\frac{3}{8}$

$\frac{(3 * -3)}{(8 * 8)}$

$-\frac{9}{64}$

3) $\frac{1}{3} * -\frac{4}{6}$

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

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

$-\frac{2}{9}$

4) $\frac{1}{4} * \frac{5}{7}$

$\frac{(1 * 5)}{(4 * 7)}$

$\frac{5}{28}$

5) $\frac{8}{3} * \frac{4}{1}$

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

$\frac{(8 * 4)}{(3 * 1)}$

$10\frac{2}{3}$

6) $\frac{1}{3} * -\frac{2}{7}$

$\frac{(1 * -2)}{(3 * 7)}$

$-\frac{2}{21}$

7) $\frac{3}{10} * \frac{1}{4}$

$\frac{(3 * 1)}{(10 * 4)}$

$\frac{3}{40}$

8) $\frac{1}{7} * -\frac{6}{9}$

$\frac{(1 * -6)}{(7 * 9)}$

$\frac{(1 * -6^{-}2)}{(7 * 9^{3})}$

$-\frac{2}{21}$

9) $\frac{5}{10} * \frac{3}{5}$

$\frac{(5 * 3)}{(10 * 5)}$

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

$\frac{3}{10}$