

Multiplying Fractions

Date _____ Period _____

Multiply.

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

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

3) $\frac{1}{2} * -\frac{1}{5}$

4) $\frac{2}{5} * -\frac{6}{6}$

5) $\frac{1}{2} * \frac{8}{1}$

6) $\frac{1}{3} * -\frac{3}{5}$

7) $\frac{1}{3} * -\frac{5}{7}$

8) $\frac{2}{4} * \frac{2}{8}$

9) $\frac{1}{3} * \frac{5}{9}$

Multiplying Fractions

Date _____ Period _____

Multiply.

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

Answer: $\frac{4}{15}$

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

Answer: $\frac{2}{15}$

3) $\frac{1}{2} * -\frac{1}{5}$

Answer: $-\frac{1}{10}$

4) $\frac{2}{5} * -\frac{6}{6}$

Answer: $-\frac{2}{5}$

5) $\frac{1}{2} * \frac{8}{1}$

Answer: 4

6) $\frac{1}{3} * -\frac{3}{5}$

Answer: $-\frac{1}{5}$

7) $\frac{1}{3} * -\frac{5}{7}$

Answer: $-\frac{5}{21}$

8) $\frac{2}{4} * \frac{2}{8}$

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

9) $\frac{1}{3} * \frac{5}{9}$

Answer: $\frac{5}{27}$

Solution Steps

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

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

$$\frac{4}{15}$$

$$2) \frac{4}{6} * \frac{1}{5}$$

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

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

$$\frac{2}{15}$$

$$3) \frac{1}{2} * -\frac{1}{5}$$

$$\frac{(1 * -1)}{(2 * 5)}$$

$$-\frac{1}{10}$$

$$4) \frac{2}{5} * -\frac{6}{6}$$

$$\frac{(2 * -6)}{(5 * 6)}$$

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

$$-\frac{2}{5}$$

$$5) \frac{1}{2} * \frac{8}{1}$$

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

$$\frac{(1 * 8)}{(2 * 1)}$$

$$\frac{(1^1 * 8^1)}{(2^1 * 1^1)}$$

$$4$$

$$6) \frac{1}{3} * -\frac{3}{5}$$

$$\frac{(1 * -3)}{(3 * 5)}$$

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

$$-\frac{1}{5}$$

$$7) \frac{1}{3} * -\frac{5}{7}$$

$$\frac{(1 * -5)}{(3 * 7)}$$

$$-\frac{5}{21}$$

$$8) \frac{2}{4} * \frac{2}{8}$$

$$\frac{(2 * 2)}{(4 * 8)}$$

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

$$\frac{1}{2}$$

$$9) \frac{1}{3} * \frac{5}{9}$$

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

$$\frac{5}{27}$$