

Name/Nombre: _____ Date/Fecha: _____

FCTG

Multiplying fractions

* Method 1: Multiply across.

❖ Step 1: Multiply across; that is, _____ .

❖ Step 2: _____ the answer in simplest form IF
POSSIBLE.

Example: Solve the problem $\frac{2}{9} \times \frac{3}{4}$.

* Method 2: Cancel diagonally.

❖ Step 1: Cancel (simplify) diagonal numbers.

❖ Step 2: Multiply across; that is, _____ .

Example:

(1) Solve the problem $\frac{4}{7} \times \frac{1}{6}$.

(2) Solve the problem $\frac{5}{8} \times \frac{12}{15}$.

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DO NOW!

1. Solve each problem. Write the answer in simplest form (if possible).

$$(1) \frac{1}{2} \times \frac{1}{2} = \frac{\boxed{}}{\boxed{}}$$

$$(2) \frac{1}{4} \times \frac{3}{5} = \frac{\boxed{}}{\boxed{}}$$

$$(3) \frac{2}{6} \times \frac{4}{5} = \frac{\boxed{}}{\boxed{}}$$

$$(4) \frac{2}{7} \times \frac{3}{9} = \frac{\boxed{}}{\boxed{}}$$

$$(5) \frac{2}{5} \times \frac{7}{12} = \frac{\boxed{}}{\boxed{}}$$

$$(6) \frac{5}{9} \times \frac{4}{8} = \frac{\boxed{}}{\boxed{}}$$

$$(7) \frac{4}{6} \times \frac{2}{4} = \frac{\boxed{}}{\boxed{}}$$

$$(8) \frac{2}{12} \times \frac{4}{6} = \frac{\boxed{}}{\boxed{}}$$

$$(9) \frac{5}{3} \times \frac{12}{8} = \frac{\boxed{}}{\boxed{}}$$

$$(10) \frac{1}{5} \times 3 = \frac{\boxed{}}{\boxed{}}$$

$$(11) \frac{5}{12} \times 8 = \frac{\boxed{}}{\boxed{}} \times \frac{\boxed{}}{\boxed{}} \quad (12) 4 \times \frac{2}{3} = \frac{\boxed{}}{\boxed{}} \times \frac{\boxed{}}{\boxed{}}$$

2. Multiplying fractions with cross cancellation. Write the answer in simplest form (if possible).

$$(1) \frac{3}{8} \times \frac{14}{18} = \frac{\boxed{}}{\boxed{}}$$

$$(2) \frac{3}{10} \times \frac{10}{14} = \frac{\boxed{}}{\boxed{}}$$

$$(3) \frac{5}{6} \times \frac{3}{4} = \frac{\boxed{}}{\boxed{}}$$

$$(4) \frac{9}{24} \times \frac{6}{90} = \frac{\boxed{}}{\boxed{}}$$

$$(5) \frac{2}{45} \times \frac{9}{20} = \frac{\boxed{}}{\boxed{}}$$

$$(6) \frac{14}{15} \times \frac{14}{18} = \frac{\boxed{}}{\boxed{}}$$

$$(7) \frac{12}{5} \times \frac{15}{8} = \frac{\boxed{}}{\boxed{}} \times \frac{\boxed{}}{\boxed{}}$$

$$(8) \frac{20}{7} \times \frac{28}{35} = \frac{\boxed{}}{\boxed{}}$$

$$(9) \frac{6}{13} \times \frac{26}{24} = \frac{\boxed{}}{\boxed{}}$$