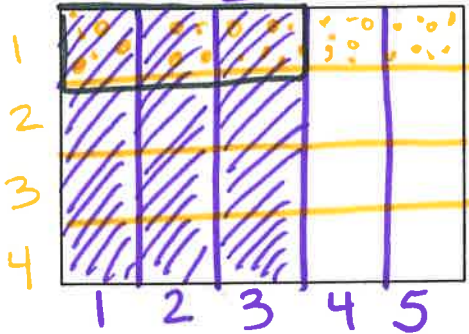
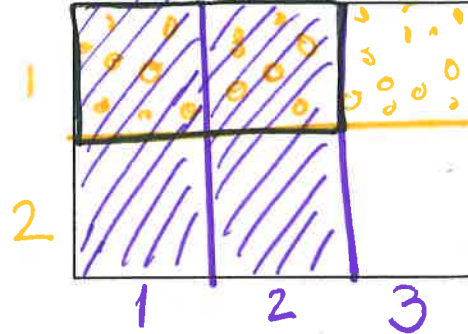


Modeling Fraction Multiplication

$$1) \frac{3}{5} * \frac{1}{4} = \boxed{\frac{3}{20}}$$



$$2) \frac{2}{3} * \frac{1}{2} = \frac{2}{6} = \boxed{\frac{1}{3}}$$

**Steps Multiplying Fractions**

- 1) Convert to proper or improper fractions (No mixed numbers allowed).
- 2) Cross cancel / "factor out". (optional)
- 3) Multiply across numerators.
- 4) Multiply across denominators.
- 5) Simplify HINT: Watch out for negatives!!

Multiply Fractions

$$1) \frac{1}{5} \cdot \frac{7}{10} \cdot \left(-\frac{2}{3}\right) = \frac{-28}{210} = \boxed{\frac{-2}{15}}$$

$$2) \frac{3}{5} \cdot \frac{4}{7} = \boxed{\frac{12}{35}}$$

Write as
improper fractions
first!!

3) $\frac{3}{4} \cdot 12$

$$\frac{3}{4} * \frac{12^3}{1} = \frac{9}{1} = \boxed{9}$$

4) $4\frac{7}{8} \cdot 5\frac{2}{3}$

$$\frac{39}{8} * \frac{17}{3} = \frac{221}{8} = \boxed{27\frac{5}{8}}$$

5) $-3\frac{3}{5} \cdot (-1\frac{5}{9})$

$$\frac{-18}{5} * \frac{-14}{9} = \frac{-28}{-5} = \boxed{5\frac{3}{5}}$$

Simplifying Variable Expressions

1) $\frac{m}{3} \cdot (-\frac{12}{5}) = \boxed{\frac{-4m}{5}}$

2) $\frac{x^4}{6} \cdot (-\frac{16x}{3}) = \boxed{\frac{-8x^5}{9}}$

3) $-2x \cdot \frac{12}{x}$

$$\frac{-2x}{1} * \frac{12}{x} = \frac{-24}{1} = \boxed{-24}$$

4) $-\frac{7n}{12} \cdot (-\frac{9n}{14}) = \boxed{\frac{3n^2}{8}}$

Homework: Why Did Sparkle Glitz Put Lipstick on her Forehead? wkst.

Adapted: Top 2 boxes on wkst.