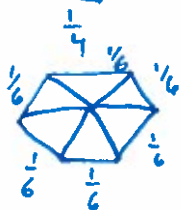


A: Multiplying a Fraction and a Whole Number

I] Using models/diagrams to represent equations.

Assume a hexagon represents one whole.



Examples:

1) What equation does each model represent? Assume a hexagon represents one whole.

a)

$$4 \times \frac{1}{6} = \frac{4}{6} = \frac{2}{3}$$

b)

$$4 \times \frac{1}{3} = \frac{4}{3}$$



$$4 \times \frac{2}{4} = 2$$

2. Determine each product.

$$a) 8 \times \frac{1}{2}$$

$$\stackrel{\div 2}{=} \frac{8}{1} \times \frac{1}{2} \quad \text{✗ cross reduce}$$

$$= \frac{4}{1} \times \frac{1}{1}$$

$$= \frac{4 \times 1}{1 \times 1} \quad \text{✗ } \frac{\text{top} \times \text{top}}{\text{bottom} \times \text{bottom}}$$

$$= \frac{4}{1}$$

$$\boxed{= 4}$$

$$b) 10 \times \frac{2}{3}$$

$$= \frac{10}{1} \times \frac{2}{3} \quad \text{✗ can't cross reduce}$$

$$= \frac{10 \times 2}{1 \times 3}$$

$$\boxed{= \frac{20}{3}}$$

$$c) 6 \times \frac{1}{8}$$

$$\stackrel{\div 2}{=} \frac{6}{1} \times \frac{1}{8 \div 2}$$

$$= \frac{3}{1} \times \frac{1}{4}$$

$$\boxed{= \frac{3}{4}}$$

$$d) 4 \times \frac{6}{5}$$

$$= \frac{4}{1} \times \frac{6}{5}$$

$$\boxed{= \frac{24}{5}}$$

Assignment Pg. 202 # 4-7 (#6 Just determine product do not use manipulatives)