Fraction of a Set Worksheets

1. Laura and Sean find the product of $\frac{2}{3} \times 4$ using different methods.

$$\frac{2}{3} \times 4 = \frac{4}{3} + \frac{4}{3} = 2 \times \frac{4}{3} = \frac{8}{3}$$

$$\frac{2}{3} + \frac{2}{3} + \frac{2}{3} + \frac{2}{3} = 4 \times \frac{2}{3} = \frac{8}{3}$$

Use words, pictures, or numbers to compare their methods in the space below.

2. Rewrite the following addition expressions as fractions as shown in the example.

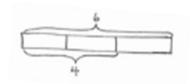
Example:
$$\frac{2}{3} + \frac{2}{3} + \frac{2}{3} + \frac{2}{3} = \frac{4 \times 2}{3} = \frac{8}{3}$$

a.
$$\frac{7}{4} + \frac{7}{4} + \frac{7}{4} =$$

b.
$$\frac{14}{5} + \frac{14}{5} =$$

c.
$$\frac{4}{7} + \frac{4}{7} + \frac{4}{7} =$$

3. Solve and model each problem as a fraction of a set and as repeated addition.



Example:
$$\frac{2}{3} \times 6 = 2 \times \frac{6}{3} = 2 \times 2 = 4$$
 $6 \times \frac{2}{3} = \frac{6 \times 2}{3} = 4$

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

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

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

b.
$$\frac{3}{5} \times 10$$

$$10 \times \frac{3}{5}$$

Fraction of a Set Worksheets

Laura and Sean find the product of ²/₃ × 4 using different methods.

Laura: It's 2 thirds of 4.

Sears: It's 4 groups of 2 thirds.

$$\frac{2}{3} \times 4 = \frac{4}{3} + \frac{4}{3} = 2 \times \frac{4}{3} = = \frac{8}{3}$$

$$\frac{2}{3} + \frac{2}{3} + \frac{2}{3} + \frac{2}{3} = 4 \times \frac{2}{3} = \frac{8}{3}$$

Use words, pictures, or numbers to compare their methods in the space below.

Both methods are correct. = x4 is 2 thirds of 4, and it will also have the same product as 4 groups of 2 thirds.





2. Rewrite the following addition expressions as fractions as shown in the example.

Example:
$$\frac{7}{3} + \frac{2}{3} + \frac{2}{3} + \frac{2}{3} = \frac{4 \times 2}{3} = \frac{8}{3}$$

$$\frac{3x7}{4} = \frac{21}{4}$$

b.
$$\frac{14}{5} + \frac{14}{3} = \frac{2 \times 14}{5} = \frac{28}{5}$$

$$2 \cdot \frac{7}{4} + \frac{7}{4} = \frac{3 \times 7}{4} = \frac{21}{4} \qquad 0 \cdot \frac{14}{5} + \frac{14}{5} = \frac{2 \times 14}{5} = \frac{28}{5} \qquad c \cdot \frac{4}{7} + \frac{4}{7} = \frac{3 \times 4}{7} = \frac{12}{7}$$

3. Solve and model each problem as a fraction of a set and as repeated addition.



Example:
$$\frac{7}{3} \times 6 = 2 \times \frac{6}{3} = 2 \times 2 = 4$$
.

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

$$0 \times \frac{1}{2} = \frac{9 \times 1}{2} = \frac{9}{2} = \frac{14}{2}$$

