

Fraction of a Set Worksheets

4. Solve each problem in two different ways as modeled in the example.

Example: $6 \times \frac{2}{3} = \frac{6 \times 2}{3} = \frac{3 \times 2 \times 2}{3} = \frac{3 \times 4}{3} = 4$ $6 \times \frac{2}{3} = \frac{6 \times 2}{\cancel{3}^1} = 4$

a. $14 \times \frac{3}{7}$

$14 \times \frac{3}{7}$

b. $\frac{3}{4} \times 36$

$\frac{3}{4} \times 36$

c. $30 \times \frac{13}{10}$

$30 \times \frac{13}{10}$

d. $\frac{9}{8} \times 32$

$\frac{9}{8} \times 32$

5. Solve each problem any way you choose.

a. $\frac{1}{2} \times 60$

$\frac{1}{2}$ minute = _____ seconds

b. $\frac{3}{4} \times 60$

$\frac{3}{4}$ hour = _____ minutes

c. $\frac{3}{10} \times 1,000$

$\frac{3}{10}$ kilogram = _____ grams

d. $\frac{4}{5} \times 100$

$\frac{4}{5}$ meter = _____ centimeters

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

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

a. $14 \times \frac{3}{7}$
 $= \frac{14 \times 3}{7} = \frac{7 \times 2 \times 3}{7} = \frac{7 \times 6}{7} = 6$

$14 \times \frac{3}{7}$
 $= \frac{14 \times 3}{7} = \frac{2 \times 3}{1} = 6$

b. $\frac{3}{4} \times 36$
 $= \frac{3 \times 36}{4} = \frac{3 \times 4 \times 9}{4} = \frac{4 \times 27}{4} = 27$

$\frac{3}{4} \times 36$
 $= \frac{3 \times 36}{4} = \frac{3 \times 9}{1} = 27$

c. $30 \times \frac{13}{10}$
 $= \frac{30 \times 13}{10} = \frac{10 \times 3 \times 13}{10} = \frac{10 \times 39}{10} = 39$

$30 \times \frac{13}{10}$
 $= \frac{3 \times 30 \times 13}{10} = \frac{3 \times 13}{1} = 39$

d. $\frac{9}{8} \times 32$
 $= \frac{9 \times 32}{8} = \frac{9 \times 4 \times 8}{8} = \frac{36 \times 8}{8} = 36$

$\frac{9}{8} \times 32$
 $= \frac{9 \times 32}{8} = \frac{9 \times 4}{1} = 36$

5. Solve each problem any way you choose.

a. $\frac{1}{2} \times 60$
 $= \frac{1 \times 60}{2} = \frac{1 \times 30}{1} = 30$

$\frac{1}{2}$ minute = 30 seconds

b. $\frac{3}{4} \times 60$
 $= \frac{3 \times 60}{4} = \frac{3 \times 15}{1} = 45$

$\frac{3}{4}$ hour = 45 minutes

c. $\frac{3}{10} \times 1000$
 $= \frac{3 \times 1000}{10} = \frac{3 \times 100}{1} = 300$

$\frac{3}{10}$ kilogram = 300 grams

d. $\frac{4}{5} \times 100$
 $= \frac{4 \times 100}{5} = \frac{4 \times 20}{1} = 80$

$\frac{4}{5}$ meter = 80 centimeters