Name _____ Date _____

1. Rewrite the following expressions 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. $\frac{5}{3}+\frac{5}{3}+\frac{5}{3}$ $= \frac{3\times 5}{3}=\frac{15}{3}=5$

b. $\frac{13}{5}+\frac{13}{5}$ $= \frac{2\times 13}{5}=\frac{26}{5}$

c. $\frac{9}{4}+\frac{9}{4}+\frac{9}{4}$ $= \frac{3\times 9}{4}=\frac{27}{4}$

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

Example: $\frac{2}{3}\times 6=\frac{2\times 6}{3}=\frac{12}{3}=4$

b. $\frac{2}{3}\times 6=\frac{2\times \cancel{6}^{2}}{\cancel{3}_{1}}=4$

a. $\frac{3}{4}\times 16 = \frac{3\times 16}{4}=\frac{48}{4}=12$

$\frac{3}{4}\times 16 = \frac{3\times \cancel{16}^{4}}{\cancel{4}_{1}}=\frac{12}{1}=12$

b. $\frac{4}{3}\times 12 = \frac{4\times 12}{3}=\frac{48}{3}=16$

$\frac{4}{3}\times 12 = \frac{4\times \cancel{12}^{4}}{\cancel{3}_{1}}=\frac{16}{1}=16$

c. $40\times\frac{11}{10} = \frac{40\times 11}{10}=\frac{440}{10}=44$

$40\times\frac{11}{10} = \frac{\cancel{40}^{4}\times 11}{\cancel{10}_{1}}=\frac{44}{1}=44$

d. $\frac{7}{6}\times 36 = \frac{7\times 36}{6}=\frac{252}{6}=42$

$\frac{7}{6}\times 36 = \frac{7\times \cancel{36}^{6}}{\cancel{6}_{1}}=\frac{42}{1}=42$

e. $24\times\frac{5}{8} = \frac{24\times 5}{8}=\frac{120}{8}=15$

$24\times\frac{5}{8} = \frac{\cancel{24}^{3}\times 5}{\cancel{8}_{1}}=\frac{15}{1}=15$

f. $18 \times \frac{5}{12} = \frac{18 \times 5}{12} = \frac{90}{12} = 7\frac{6}{12} = 7\frac{1}{2}$ $18 \times \frac{5}{12} = \frac{\overset{3}{\cancel{18}} \times 5}{\underset{2}{\cancel{12}}} = \frac{15}{2} = 7\frac{1}{2}$

g. $\frac{10}{9} \times 21 = \frac{10 \times 21}{9} = \frac{210}{9} = 23\frac{3}{9}$ $= 23\frac{1}{3}$ $\frac{10}{9} \times 21 = \frac{10 \times \overset{7}{\cancel{21}}}{\underset{3}{\cancel{9}}} = \frac{70}{3} = 23\frac{1}{3}$

3. Solve each problem any way you choose.

a. $\frac{1}{3} \times 60 = \frac{1 \times 60}{3} = \frac{60}{3} = 20$ $\frac{1}{3}$ minute = 20 seconds

b. $\frac{4}{5} \times 60 = \frac{4 \times \overset{12}{\cancel{60}}}{\underset{1}{\cancel{5}}} = \frac{48}{1} = 48$ $\frac{4}{5}$ hour = 48 minutes

c. $\frac{7}{10} \times 1000 = \frac{7 \times \overset{100}{\cancel{1000}}}{\underset{1}{\cancel{10}}} = \frac{700}{1}$ $= 700$ $\frac{7}{10}$ kilogram = 700 grams

d. $\frac{3}{5} \times 100 = \frac{3 \times \overset{20}{\cancel{100}}}{\underset{1}{\cancel{5}}} = \frac{60}{1}$ $= 60$ $\frac{3}{5}$ meter = 60 centimeters