

Name Jack

Date _____

1. Fill in the unknown factors.

a. $7 \times 3\frac{2}{5} = (7 \times 3) + (7 \times \frac{2}{5})$

b. $3 \times 12\frac{7}{8} = (3 \times 12) + (3 \times \frac{7}{8})$

2. Multiply. Use the distributive property.

a. $7 \times 8\frac{2}{5}$

8	$\frac{2}{5}$	8	$\frac{2}{5}$	8	$\frac{2}{5}$	8	$\frac{2}{5}$	8	$\frac{2}{5}$	8	$\frac{2}{5}$	8	$\frac{2}{5}$	8	$\frac{2}{5}$
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$$\begin{aligned}
 7 \times 8\frac{2}{5} &= 56 + \frac{14}{5} \\
 &= 56 + 2\frac{4}{5} \\
 &= 58\frac{4}{5}
 \end{aligned}$$

b. $4\frac{5}{6} \times 9 = 36 + \frac{45}{6}$

$$\begin{aligned}
 &= 36 + 7\frac{3}{6} \\
 &= 43\frac{3}{6}
 \end{aligned}$$

c. $3 \times 8\frac{11}{12}$

8	$\frac{11}{12}$	8	$\frac{11}{12}$	8	$\frac{11}{12}$
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$$\begin{aligned}
 3 \times 8\frac{11}{12} &= 24 + \frac{33}{12} \\
 &= 24 + 2\frac{9}{12} \\
 &= 26\frac{9}{12}
 \end{aligned}$$

d. $5 \times 20\frac{8}{10} = 100 + \frac{40}{10}$

$$\begin{aligned}
 &= 100 + 4 \\
 &= 104
 \end{aligned}$$

e. $25\frac{4}{100} \times 4$

$$\begin{array}{|c|c|c|c|} \hline 25 & \frac{4}{100} & 25 & \frac{4}{100} \\ \hline \end{array} \times 4 = 100 + \frac{16}{100}$$

$$= 100\frac{16}{100}$$

3. The distance around the park is $2\frac{5}{10}$ miles. Cecilia ran around the park 3 times. How far did she run?

$$\begin{array}{|c|c|c|c|} \hline 2 & \frac{5}{10} & 2 & \frac{5}{10} \\ \hline \end{array} \times 3 = 6 + \frac{15}{10}$$

$$= 6 + 1\frac{5}{10}$$

$$= 7\frac{5}{10}$$

Cecilia ran $7\frac{5}{10}$ miles.

4. Windsor the dog ate $4\frac{3}{4}$ snack bones each day for a week. How many bones did Windsor eat that week?

$$7 \times 4\frac{3}{4} = 28 + \frac{21}{4}$$

$$= 28 + 5\frac{1}{4}$$

$$= 33\frac{1}{4}$$

Windsor ate $33\frac{1}{4}$ bones that week.