Center #1 – Multiply. Write the answer in simplest form.

1. $\dfrac{2}{9} \times \dfrac{3}{4}$ 　　　　　　 2. $2\dfrac{2}{3} \times \dfrac{4}{5}$ 　　　　　　 3. $2\dfrac{3}{10} \times 5\dfrac{1}{3}$

4. Johnny gets $1\dfrac{3}{4}$ of a candy bar. He gives you $\dfrac{3}{4}$ of that. How much of a candy bar do you get? Draw a representation and then solve.

Center #2 – Divide. Write the answer in simplest form.

1. $1\dfrac{2}{5} \div \dfrac{4}{7}$ 　　　　　　 2. $5\dfrac{5}{8} \div 1\dfrac{2}{9}$ 　　　　　　 3. $3\dfrac{3}{5} \div 12$

4. You have a total of $8\dfrac{2}{3}$ pounds of ground beef to make tacos for a party. Each taco needs $\dfrac{1}{6}$ pounds of beef. How many tacos can you make?

Center #3 – Add or subtract.

1. 3.78 + 8.94 　　　　　　　　 2. 19.89 + 4.372

3. 7.638 – 2.365 　　　　　　　　 4. 14.21 – 4.103

Center #4

You have a stick that is 10 feet long. You want to cut it into $1\frac{3}{5}$ foot pieces. How many

sticks can you make? What is the length of the leftover stick?

Center #5
You want to get some bags of chips from a store that sells 3 for $4.35. Peter wants to get bags of chips from another store that sells 5 for $7.41. Which one is the better deal?

Center #6
A store sells rice for $1.08 per pound. You buy 4.3 pounds of rice. If you give the cashier $10.00, how much change will you get back?

Center #1 – Multiply. Write the answer in simplest form.
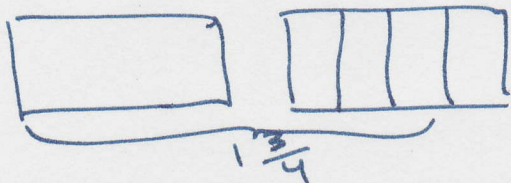
1. $\dfrac{2}{9} \times \dfrac{3}{4} = \dfrac{1}{6}$

$3 \qquad 2 \qquad 6$

2. $2\dfrac{2}{3} \times \dfrac{4}{5}$

$\dfrac{8}{3} \times \dfrac{4}{5} = \dfrac{32}{15} = 2\dfrac{2}{15}$

3. $2\dfrac{3}{10} \times 5\dfrac{1}{3}$

$\dfrac{23}{10} \times \dfrac{8}{3} = \dfrac{184}{15} = 12\dfrac{4}{15}$

4. Johnny gets $1\dfrac{3}{4}$ of a candy bar. He gives you $\dfrac{3}{4}$ of that. How much of a candy bar do you get? Draw a representation and then solve.

$\dfrac{3}{4} \cdot 1\dfrac{3}{4}$

$\dfrac{3}{4} \cdot \dfrac{7}{4} = \dfrac{21}{16} = 1\dfrac{5}{16}$ of a candy bar

Center #2 – Divide. Write the answer in simplest form.

1. $1\dfrac{2}{5} \div \dfrac{4}{7}$

$\dfrac{7}{5} \cdot \dfrac{7}{4} = \dfrac{49}{20} = 2\dfrac{9}{20}$

2. $5\dfrac{5}{8} \div 1\dfrac{2}{9}$

$\dfrac{45}{8} \div \dfrac{11}{9}$

$\dfrac{45}{8} \cdot \dfrac{9}{11} = \dfrac{405}{88} = 4\dfrac{53}{88}$

3. $3\dfrac{3}{5} \div 12$

$\dfrac{18}{5} \cdot \dfrac{1}{12} = \dfrac{3}{10}$

4. You have a total of $8\dfrac{2}{3}$ pounds of ground beef to make tacos for a party. Each taco needs $\dfrac{1}{6}$ pounds of beef. How many tacos can you make?

$8\dfrac{2}{3} \div \dfrac{1}{6}$

$\dfrac{26}{3} \cdot \dfrac{6}{1} = 52$ tacos

Center #3 – Add or subtract.

1. $3.78 + 8.94$

12.72

2. $19.89 + 4.372$

24.262

3. $7.638 - 2.365$

5.273

4. $14.21 - 4.103$

10.107

Center #4

You have a stick that is 10 feet long. You want to cut it into $1\frac{3}{5}$ foot pieces. How many sticks can you make? What is the length of the leftover stick?

$$10 \div 1\frac{3}{5}$$

$$10 \div \frac{8}{5}$$

$$\frac{{}^5\cancel{10}}{1} \cdot \frac{5}{\cancel{8}_4} = \frac{25}{4} = 6\frac{1}{4} \nearrow \quad \frac{1}{4} \text{ of } 1\frac{3}{5} \text{ left}$$

$$\frac{1}{\cancel{4}} \cdot \frac{\cancel{8}^2}{5} = \frac{2}{5} \text{ foot leftover}$$

6 sticks

Center #5

You want to get some bags of chips from a store that sells 3 for $4.35. Peter wants to get bags of chips from another store that sells 5 for $7.41. Which one is the better deal?

3 for 4.35

$1.45 each

$$3\overline{)4.35}$$
$$-3$$
$$\overline{13}$$
$$-12$$
$$\overline{15}$$

5 for $7.41

1.482 → $1.48 each

$$5\overline{)7.410}$$
$$-5$$
$$\overline{24}$$
$$-20$$
$$\overline{41}$$
$$-40$$
$$\overline{10}$$

3 for $4.35 is the better deal.

Center #6

A store sells rice for $1.08 per pound. You buy 4.3 pounds of rice. If you give the cashier $10.00, how much change will you get back?

$$\begin{array}{r} 1.08 \\ \times\ 4.3 \\ \hline 324 \\ 4320 \\ \hline 4.644 \end{array}$$

$\downarrow$

$4.64 total cost

$$\begin{array}{r} 10.00 \\ -4.64 \\ \hline \$5.36 \end{array}$$