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

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

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

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

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

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

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

1. $\dfrac{3}{4} \div \dfrac{5}{6}$

2. $\dfrac{8}{9} \div \dfrac{3}{10}$

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

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

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

Center #3 – Evaluate

1. $19.89 + 4.372$

2. $14.21 - 4.103$

3. 3.21×6.8

4. $54.78 \div 1.2$

Center #4

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

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. $\dfrac{2}{9} \times \dfrac{3}{4} = \dfrac{1}{6}$

2. $\dfrac{3}{10} \times \dfrac{4}{5} = \dfrac{6}{25}$

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

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

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

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

$\dfrac{23}{10} \times \dfrac{16}{3} = \dfrac{184}{15} = 12\dfrac{4}{15}$

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

1. $\dfrac{3}{4} \div \dfrac{5}{6}$

$\dfrac{3}{4} \cdot \dfrac{6}{5} = \dfrac{9}{10}$

2. $\dfrac{8}{9} \div \dfrac{3}{10}$

$\dfrac{8}{9} \cdot \dfrac{10}{3} = \dfrac{80}{27} = 2\dfrac{26}{27}$

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

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

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

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

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

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

Center #3 – Evaluate

1. $19.89 + 4.372$

$\begin{array}{r} 19.890 \\ +\ 4.372 \\ \hline 24.262 \end{array}$

2. $14.21 - 4.103$

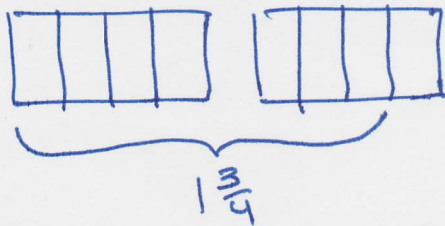$\begin{array}{r} 14.210 \\ -\ 4.103 \\ \hline 10.107 \end{array}$

3. 3.21×6.8

$\begin{array}{r} 3.21 \\ \times\ 6.8 \\ \hline 2568 \\ 19260 \\ \hline 21.828 \end{array}$

4. $54.78 \div 1.2$

$1.2)\overline{54.78}$

$\begin{array}{r} 45.65 \\ 12)\overline{547.80} \\ -48 \\ \hline 67 \\ -60 \\ \hline 78 \\ -72 \\ \hline 60 \end{array}$

Center #4

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

$1\frac{3}{4}$

you get $\frac{3}{4}$ of $1\frac{3}{4}$

$$\frac{3}{4} \times 1\frac{3}{4}$$

$$\frac{3}{4} \times \frac{7}{4} = \frac{21}{16} = 1\frac{5}{16} \text{ of a candy bar}$$

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

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

5 for $7.41

$1.482 \rightarrow$ $1.48 each

$$5\overline{)7.41}$$
$$\underline{-5}$$
$$24$$
$$\underline{-20}$$
$$41$$
$$\underline{-40}$$
$$10$$

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?

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

↖ total cost

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