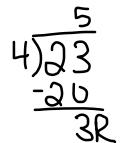
Grade Eight Math Assignment 2015 Chapter Three: Fractions PRACTICE

Name:_____

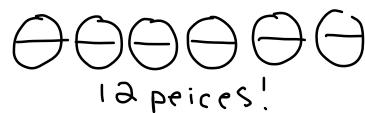
1. What is $\frac{23}{4}$ as a mixed number?



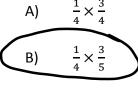
- A) $5\frac{1}{4}$
- B) $5\frac{1}{2}$
- (c) $5\frac{3}{4}$ D) $6\frac{3}{4}$
- _ 2. What is the best estimate of $5\frac{8}{9} \div \frac{4}{9}$?
 - A) $\frac{1}{2}$

 $6 \div \frac{1}{2}$

- B) 3
- C) 10 D) 12

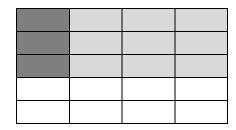


3. Which expression is best represented by the model?



C) $\frac{3}{20} \times \frac{3}{5}$







What is $\frac{2}{3} + \frac{2}{3} + \frac{2}{3} + \frac{2}{3}$ written as a multiplication statement?

A)
$$3 \times \frac{2}{3}$$

B)
$$3 \times 4$$

C)
$$4 \times \frac{2}{3}$$

D)
$$4 \times \frac{3}{2}$$



5. Which multiplication statement is modelled?

A)
$$\frac{3}{7} \times \frac{4}{7}$$

B)
$$3 \times \frac{4}{7}$$

C)
$$5 \times \frac{4}{7}$$

D)
$$21 \times \frac{4}{7}$$











Which multiplication equation is modelled below? 6.

$$2 \times 3 = 6$$

$$2 \times \frac{1}{3} = \frac{2}{3}$$

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

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

$$2\frac{1}{3} \times 3\frac{1}{2} = 8\frac{1}{3}$$

(B)
$$2\frac{1}{2} \times 3\frac{1}{3} = 8\frac{1}{3}$$

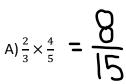
$$2\frac{1}{3} \times 3\frac{1}{2} = 6\frac{1}{6}$$

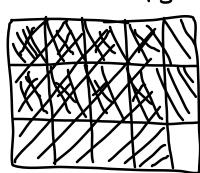
D)
$$2\frac{1}{2} \times 3\frac{1}{3} = 6\frac{1}{6}$$

$$6 + \frac{1 \times 3}{2} \times \frac{2 \times 2}{3 \times 2} \times \frac{1}{6}$$

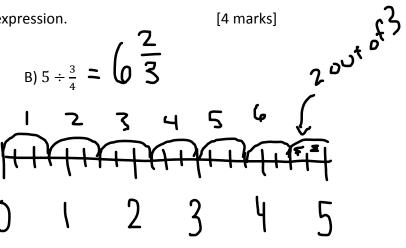
Section 2- Show All workings!

1. Using a model of your choice, evaluate each expression.





$$_{B) \, 5 \, \div \, \frac{3}{4}} = 6 \, \frac{2}{3}$$



[4 marks]

2. Calculate each expression Reduce your answers to lowest terms, if necessary. [2 marks each]

A) $\frac{2}{3} \times \frac{4}{5}$ B) $\frac{4}{9} \div \frac{4}{5}$ C) $\frac{53}{32} \times \frac{21}{35}$ D) $\frac{12}{7} \div \frac{10}{1}$ $\frac{8}{15}$ $\frac{1}{4} \times \frac{5}{15}$ $\frac{33}{15} \div \frac{3}{15}$ $\frac{1}{4} \times \frac{1}{15}$

A)
$$\frac{2}{3} \times \frac{4}{5}$$

E) $4\frac{1}{3} \times \frac{1}{9}$

B)
$$\frac{4}{9} \div \frac{4}{5}$$

$$\begin{array}{c}
\begin{array}{c}
\begin{array}{c}
\begin{array}{c}
\begin{array}{c}
\begin{array}{c}
\end{array}\\
\end{array}\\
\end{array}\\
\end{array}$$

$$\begin{array}{r}
6 & 7 \\
 \hline
 33 : 3 \\
 \hline
 42 : 3
\end{array}$$

G)
$$\frac{x^4}{5} \times 5$$
 H) $\frac{7}{8} - \frac{3}{4} \times 2$

$$\frac{8}{20} + \frac{25}{20}$$

H)
$$\frac{7}{8} - \frac{3}{4}$$
 Y7

3. Calculate each expression. Reduce your answers to lowest terms, if necessary. [3 marks each]

A)
$$2^{\frac{2}{3}} + \frac{5}{2} \times \frac{3}{4} \times \frac{1}{4} \times \frac{1}{4}$$

B)
$$\frac{3}{10} - \frac{\left(\frac{1}{5} + \frac{1}{4}\right) \times \frac{2}{3}}{10} \times \frac{3}{10} \times \frac{3}{10}$$

4. Write a real world word problem for the expression; $10 \times \frac{1}{2}$. [2 marks]

Joanne give a of her cardy to her brother. If she has 10 candies, how many does her brother get?

MANSWERS WILL Vary

5. Sam bought $1\frac{2}{3}$ of a pound of chocolate. If he eats $\frac{3}{5}$ of it, how many pounds has he eaten? [2 marks]

 $\frac{3}{5} \text{ "of" } | \frac{2}{3} \sim \frac{3}{5} \times | \frac{2}{3}$ He has eaten $\frac{1}{5} \times | \frac{2}{5} \times | \frac{2}{3} |$ $\frac{1}{5} \times | \frac{2}{3} \times | \frac{2}{3} |$ $\frac{1}{5} \times | \frac{2}{3} \times | \frac{2}{3} |$

6. Chris ate 2 slices of cake and Stephanie ate 1 slice. If Christopher ate ½ of the cake and all the slices were the same size, what fraction of the cake remained after Christopher and Stephanie had eaten? A diagram may help. [2 marks]



Entire Cake:

$$3 \div \frac{1}{a} = \frac{1}{2} \times \frac{1}{a} = \frac{1}{4} = \frac{1}{4}$$

7. Monica and Ryan shared 18 cookies. Monica ate 1/6 of the cookies. Ryan ate 1/3 of the cookies. How many cookies were left? [2 marks]

onica
$$\frac{18-18-3}{3\sqrt{1}} = \frac{18}{3} = 6$$

8. McDonalds sell milkshakes in two sizes. A small milkshake is 300 ml and a large milkshake contains $\frac{2}{3}$ more.

A) How many ml are in a large milkshake in total?

$$300 \times \frac{3}{3} = \frac{3}{600} = 900 \, \text{m}_1 \, \text{ extra}$$

There are 500ml

B) If Sally drinks $\frac{2}{3}$ of a **SMALL** milkshake and Ed drinks $\frac{1}{2}$ of a **LARGE** milkshake, who drinks

the most?

$$50^{12} \times 50^{0}$$

= 500^{2}
= 250

