November 9, 2019 10:47 PM

Name: ______ Date:_____

Math 8 Ch 2.1 to 2.5 Review Multiplying and Dividing Fractions:

1. Divide each of the following fractions. Show all your work and steps

a) $\frac{18}{24} \div \frac{27}{16}$ $\frac{18}{24} \times \frac{16}{27}$ $= \frac{2}{3} \times \frac{1}{3} = \frac{2}{3}$	b) $\frac{2}{7} \div \frac{2}{7}$ Any value Divided By There is From To one only exception is zero	c) $\frac{35}{24} \div \frac{49}{64}$ $\frac{35}{24} \times \frac{154}{147} = \frac{5}{3} \times \frac{8}{7} = \frac{40}{21}$
d) $\frac{2}{3} \cdot \frac{10}{12} \times \frac{9}{8} = \frac{1}{1} \times \frac{1}{5} \times \frac{9}{2}$ $= \frac{9}{10}$ $= \frac{9}{10}$	e) $\frac{10}{32} \times \frac{18}{15} \oplus \frac{27}{16} = \frac{2}{1} \times \frac{1}{3} \times \frac{1}{3}$ $\frac{10}{32} \times \frac{18}{15} \times \frac{15}{27} = \frac{2}{1}$ $\frac{10}{32} \times \frac{18}{15} \times \frac{1}{27} = \frac{2}{1}$	f) $\frac{4}{9}$ $\frac{12}{18}$ $\frac{22}{8}$ $\frac{33}{6}$ = $\frac{1}{1}$ $\frac{1}{1}$ $\frac{8}{11}$ $\frac{2}{11}$ $\frac{1}{11}$ $\frac{1}{11}$ $\frac{1}{11}$ $\frac{1}{11}$ $\frac{1}{11}$ $\frac{1}{11}$ $\frac{1}{11}$ $\frac{2}{11}$ $\frac{2}{1$
g) $1\frac{2}{3} \div 2\frac{1}{7}$ Shape #1) To improper Fraction $\frac{5}{3} \div \frac{15}{7}$	h) $3\frac{2}{11} \div 8\frac{1}{3}$ $\frac{35}{11} \div \frac{25}{3}$ $\frac{35}{11} \times \frac{3}{25} \times \frac{3}{11}$	i) $2\frac{4}{5} \div 2\frac{1}{10}$ $\frac{14}{5} \div \frac{21}{10}$ $\frac{2}{5} \times \frac{10}{2}$
=	= <u>21</u> 55 //	2 × 3 = 4 3 /

2. Match each division statement on the left with the correct multiplication statement on the right:

I	$10 \div \frac{1}{3}$ \longrightarrow $10 \times \frac{3}{1}$	L	a) $\frac{8}{3} \times \frac{2}{3}$	b)	$11 \times \frac{1}{9}$
ii)	$\frac{2}{3} \div 7 \longrightarrow \frac{2}{3} \times \frac{1}{7}$	0	c) $\frac{2}{3} \times \frac{1}{7}$	d)	$\frac{1}{11} \times \frac{1}{9}$
iii)	$\frac{5}{3} \div \frac{4}{6} \longrightarrow \frac{5}{3} \times \frac{6}{4} \rightarrow$	5 × 2 K	e)12×8	f)	$\frac{1}{12} \times 8$
iv)	11÷9 — 11÷ 4 ->	11× 1/8	$g)\frac{3}{2}\times\frac{1}{7}$	h)	$3 \times \frac{1}{10}$
v)	$\frac{1}{12} \div \frac{1}{8} \longrightarrow \frac{1}{12} \times \frac{8}{1}$	F	i) $2\frac{2}{3} \times 1\frac{2}{1}$	1)	$\frac{5}{3} \times \frac{4}{6}$
vi)	$2\frac{2}{3} \div 1\frac{1}{2} \longrightarrow \frac{?}{3} \div \frac{?}{2} \longrightarrow$	3 × 2 A	$k)\frac{5}{3} \times \frac{3}{2}$	L)	10×3

3. Which of the following equations is equal to expression:
$$\frac{A}{B} \times \frac{C}{D} \oplus \frac{E}{F} \oplus \frac{G}{H}$$
 $\xrightarrow{A} \times \frac{C}{B} \times \frac{F}{D} \oplus \frac{H}{E} \times \frac{G}{G}$ i) $\frac{A \times C \times E \times G}{B \times D \times F \times H}$ ii) $\frac{A \times C \times F \times G}{B \times D \times E \times H}$ iii) $\frac{A \times D \times F \times G}{B \times C \times E \times H}$ iv) $\frac{A \times C \times F \times H}{B \times D \times E \times G} \vee \frac{B \times D \times E \times G}{A \times C \times F \times H}$

- 4. James has 100 pounds of candy and wants to split it into smaller bags. If each bag can hold $\frac{1}{2}$ a pound of candy, how many bags can he make?
 - a) Write an equation to represent the scenario

b) Solve the equation and find out how many bags he can make:

- 5. Dave took 8/9 of his savings and decided to invest it. With his investments, 2/3 of it will go into the Canadian stock market. Amongst his Canadian stocks, ½ of it will be invested into Oil companies. If Dave had \$100,000 in his savings account, how much did he invest into Oil companies?
 - a) Write an equation to represent the scenario

6. Sandy's dad just finished working and was paid \$8000 for his work. Her dad gave her mom $\frac{5}{6}$ of his salary to pay for household expenses. Her mom gave her brother $\frac{1}{15}$ of the amount she received as allowances for her brother. Her brother gave Sandy $\frac{2}{3}$ of his allowances because he owed her money.



b) Solve the scenario and find out how much money Sandy got from her brother