

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) $\frac{18}{24} \div \frac{27}{16}$	b) $\frac{2}{7} \div \frac{2}{7}$	c) $\frac{35}{24} \div \frac{49}{64}$
d) $\frac{2}{3} \div \frac{10}{12} \times \frac{9}{8}$	e) $\frac{10}{32} \times \frac{18}{15} \div \frac{27}{16}$	f) $\frac{4}{9} \div \frac{12}{18} \div \frac{22}{8} \div \frac{33}{6}$
g) $1\frac{2}{3} \div 2\frac{1}{7}$	h) $3\frac{2}{11} \div 8\frac{1}{3}$	i) $2\frac{4}{5} \div 2\frac{1}{10}$

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

i) $10 \div \frac{1}{3}$	a) $\frac{8}{3} \times \frac{2}{3}$	b) $11 \times \frac{1}{9}$
ii) $\frac{2}{3} \div 7$	c) $\frac{2}{3} \times \frac{1}{7}$	d) $\frac{1}{11} \times \frac{1}{9}$
iii) $\frac{5}{3} \div \frac{4}{6}$	e) $12 \times 8$	f) $\frac{1}{12} \times 8$
iv) $11 \div 9$	g) $\frac{3}{2} \times \frac{1}{7}$	h) $3 \times \frac{1}{10}$
v) $\frac{1}{12} \div \frac{1}{8}$	j) $2\frac{2}{3} \times 1\frac{2}{1}$	J) $\frac{5}{3} \times \frac{4}{6}$
vi) $2\frac{2}{3} \div 1\frac{1}{2}$	k) $\frac{5}{3} \times \frac{3}{2}$	L) $10 \times 3$

3. Which of the following equations is equal to expression:  $\frac{A}{B} \times \frac{C}{D} \div \frac{E}{F} \div \frac{G}{H}$  ?

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)  $\frac{A \times C \times F \times H}{B \times D \times E \times G}$  v)  $\frac{B \times D \times E \times G}{A \times C \times F \times H}$

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  $\frac{8}{9}$  of his savings and decided to invest it. With his investments,  $\frac{2}{3}$  of it will go into the Canadian stock market. Amongst his Canadian stocks,  $\frac{1}{2}$  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

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

6. Sandy's dad just finished working and was paid \$8000 for his work. Her dad gave her mom  $\frac{5}{8}$  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.

How much money did Sandy get from her brother?

a) Write an equation for this scenario

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