

**Grade 8 Review - Fractions****Outcome N6 - Fractions**

- Simplify and state final solutions in lowest terms.
- Rewrite final solutions as mixed numbers, if possible.

1) Multiply each of the following:

a)  $6 \times \frac{1}{3}$

b)  $10 \times \frac{1}{2}$

c)  $\frac{5}{9} \times 9$

d)  $\frac{1}{8} \times 12$

e)  $\frac{6}{9} \times \frac{1}{3}$

f)  $\frac{8}{7} \times \frac{13}{12}$

g)  $\frac{1}{2} \times 2\frac{1}{8}$

h)  $3\frac{1}{4} \times \frac{7}{8}$

i)  $2\frac{1}{3} \times 5\frac{2}{5}$

j)  $4\frac{1}{3} \times 1\frac{7}{8}$

2) Divide each of the following:

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

b)  $2 \div \frac{3}{8}$

c)  $\frac{3}{4} \div 4$

d)  $\frac{1}{5} \div 7$

e)  $\frac{2}{3} \div \frac{5}{6}$

f)  $\frac{7}{12} \div \frac{3}{4}$

g)  $8 \div 1\frac{5}{6}$

h)  $5\frac{7}{8} \div 4$

i)  $2\frac{3}{4} \div 1\frac{1}{8}$

j)  $5\frac{2}{5} \div 1\frac{9}{10}$

3) Simplify each of the following:

a)  $\frac{2}{5} \div \left( \frac{1}{3} + \frac{3}{2} \right)$

b)  $\left( 6 - \frac{3}{2} \right) \times \frac{5}{3}$

c)  $\frac{3}{4} \times \frac{8}{9} - \frac{1}{9} \div \frac{2}{3}$

d)  $2\frac{2}{3} - 1\frac{1}{2} \div \left( 4\frac{2}{3} + \frac{1}{3} \right)$

4) Mrs. Coe needs to make 16 costumes for the school play. Each costume requires  $2\frac{1}{4}$  yards of material. How many yards of material will she need?

5) Mr. Fast is going to serve  $\frac{1}{3}$  of a whole pizza to each guest at his Halloween party. If he expects 24 guests, how many pizzas will he need?

6) A stack of boards is 21 inches high. Each board is  $1\frac{3}{4}$  inches thick. How many boards are there?

7) Mrs. Forfar baked 9 pies that weight  $20\frac{1}{4}$  pounds total. How much does each pie weigh?

8) Super Mart had a sale. The first \$200 Sara's father spent was discounted by  $\frac{1}{10}$ , and the amount he spent over \$200 was discounted by  $\frac{1}{5}$ . Sara's father bought \$275 worth of groceries. What was the total discount?

9) In Mr. Trudel's grade 8 class 20 students, or  $\frac{5}{7}$  of the class, bought class photos. In Ms. Chester's grade 8 class 18 students, or  $\frac{2}{3}$  of the class, bought class photos. How many students were there in total in Mr. Trudel's and Ms. Chester's classes?

