

## G5-M4-Lesson 32

1. Circle the expression equivalent to *the sum of 5 and 2 divided by  $\frac{1}{5}$* .

$$\frac{5+2}{5}$$

This expression represents the sum of 5 and 2 divided by 5.

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

This expression represents the sum of 5 and the quotient of 2 divided by  $\frac{1}{5}$ .

$$\frac{1}{5} \div (5+2)$$

This expression represents  $\frac{1}{5}$  divided by the sum of 5 and 2.

$$(5+2) \div \frac{1}{5}$$

This expression is equivalent to the sum of 5 and 2 divided by  $\frac{1}{5}$ .

2. Fill in the chart by writing an equivalent numerical expression.

I can find "half" by dividing by 2 or by multiplying by  $\frac{1}{2}$ .

The *difference* between two numbers means I need to use subtraction to solve.

This is one possible way to write the numerical expression.

a.	Half as much as the difference between $1\frac{1}{4}$ and $\frac{5}{8}$	$\left(1\frac{1}{4} - \frac{5}{8}\right) \div 2$
b.	Add 3.9 and $\frac{5}{7}$ , and then triple the sum.	$\left(3.9 + \frac{5}{7}\right) \times 3$

Add two numbers means I need to use addition.

I can triple a number by adding it 3 times or by multiplying by 3.

3. Fill in the chart by writing an equivalent expression in word form.

I see the subtraction sign, so I use the phrase, "difference between  $\frac{3}{5}$  and \_\_\_\_\_."

I see the multiplication sign, so I use the phrase "product of  $\frac{1}{4}$  and 2 tenths."

a.	The difference between $\frac{3}{5}$ and the product of $\frac{1}{4}$ and 2 tenths	$\frac{3}{5} - \left(\frac{1}{4} \times 0.2\right)$
b.	$\frac{3}{2}$ times the sum of 2.75 and $\frac{1}{8}$	$\left(2.75 + \frac{1}{8}\right) \times \frac{3}{2}$

I see the addition sign, so I use the phrase "sum of 2.75 and  $\frac{1}{8}$ ."

I see the multiplication symbol, so I say, " $\frac{3}{2}$  times."

Evaluate means to "find the value of."

4. Evaluate the following the expression.

I see two multiplication signs in this expression, so I can solve for it from left to right. But since multiplication is associative, I can solve  $\frac{4}{9} \times \frac{9}{4}$  first because I can see that the product is 1.

$$\frac{1}{2} \times \frac{4}{9} \times \frac{9}{4}$$

I put a parenthesis around  $\frac{4}{9} \times \frac{9}{4}$  to show that I solve it first.

$$= \frac{1}{2} \times \left(\frac{4}{9} \times \frac{9}{4}\right)$$

$\frac{4}{9} \times \frac{9}{4}$  is equal to  $\frac{36}{36}$ , or 1.

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

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

$\frac{1}{2}$  of 1 is  $\frac{1}{2}$ .