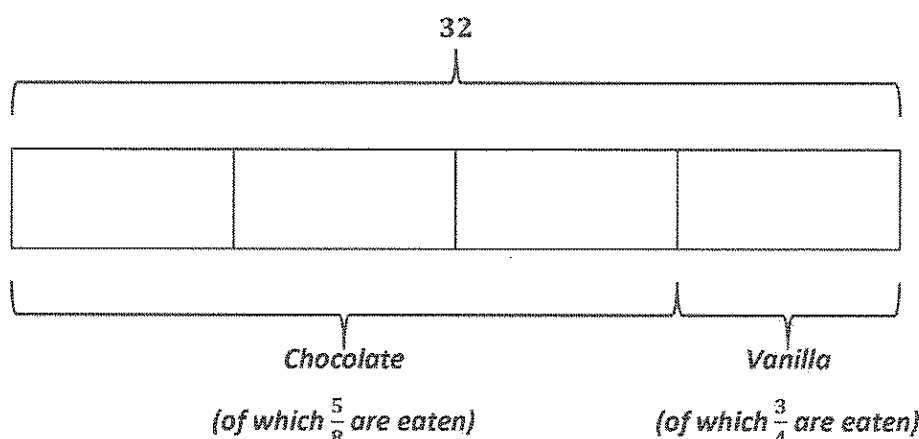


## G5-M6-Lesson 27

1. Use the RDW process to solve the word problem below.

Daquan brought 32 cupcakes to school. Of those cupcakes,  $\frac{3}{4}$  were chocolate, and the rest were vanilla. Daquan's classmates ate  $\frac{5}{8}$  of the chocolate cupcakes and  $\frac{3}{4}$  of the vanilla. How many cupcakes are left?



Chocolate eaten:

$$\frac{3}{4} \text{ of } 32 = \frac{3 \times 32}{4} = \frac{96}{4} = 24$$

$$\frac{5}{8} \text{ of } 24 = \frac{5 \times 24}{8} = \frac{120}{8} = 15$$

Of all the cupcakes, 24 are chocolate.

Of the 24 chocolate cupcakes, 15 were eaten.

15 chocolate cupcakes were eaten.

Vanilla eaten:

$$\frac{1}{4} \text{ of } 32 = \frac{1 \times 32}{4} = \frac{32}{4} = 8$$

$$\frac{3}{4} \text{ of } 8 = \frac{3 \times 8}{4} = \frac{24}{4} = 6$$

Of all the cupcakes, 8 are vanilla.

Of the 8 vanilla cupcakes, 6 were eaten.

6 vanilla cupcakes were eaten.

Cupcakes left:

$$32 - (15 + 6) = 32 - 21 = 11$$

11 cupcakes are left.

I find the number of leftover cupcakes by subtracting those that were eaten from the 32 original cupcakes.

2. Write and solve a word problem for the expression in the chart below.

Expression	Word Problem	Solution
$5 - \left(\frac{5}{12} + \frac{1}{3}\right)$	<i>During her 5-day work week, Mrs. Gomez spends <math>\frac{5}{12}</math> of one day and <math>\frac{1}{3}</math> of another in meetings. How much of her work week is <u>not</u> spent in meetings?</i>	$\begin{aligned} &5 - \left(\frac{5}{12} + \frac{1}{3}\right) \\ &= 5 - \left(\frac{5}{12} + \frac{4}{12}\right) \\ &= 5 - \frac{9}{12} \\ &= 4\frac{3}{12} \\ &= 4\frac{1}{4} \end{aligned}$ <i><math>4\frac{1}{4}</math> days of Mrs. Gomez' work week was not spent in meetings.</i>