Look for and express regularity in repeated reasoning. Mathematical Practice 8

I can notice when calculations are repeated.

I see number patterns!

11 = 10 + 1
12 = 10 + 2
13 = 10 + 3
14 = 10 + 4
15 = 10 + 5

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Jordan School District 2012, Grades K-1
Look for and express regularity in repeated reasoning. Mathematical Practice 8

I can notice when calculations are repeated.

$5 \times 2 = 10$

$2 + 2 + 2 + 2 + 2 = 10$

I am adding 2 five times.

I am counting rows with 2 in each row five times.

I am making 5 hops of 2 on the number line.
Look for and express regularity in repeated reasoning.  

Mathematical Practice 8

I can notice when calculations are repeated. Then, I can find more general methods and short cuts.

As I work...

...I think about what I’m trying to figure out while I pay attention to the details

...I evaluate if my results are reasonable.

There are many ways to decompose \( \frac{3}{8} \) because it is composed of repeated \( \frac{1}{8} \) s.

I CAN.....

...draw a whole and shade in three \( \frac{1}{8} \) s parts.

...add eighths.

\[
\frac{3}{8} = \frac{1}{8} + \frac{1}{8} + \frac{1}{8}
\]

...count by eighths.  
(one-eighth, two eighths, three eighths)

\[
\frac{3}{8} = \frac{1}{8}, \frac{1}{8}, \frac{1}{8}
\]

...jump three \( \frac{1}{8} \) size jumps on a number line.
Look for and express regularity in repeated reasoning.  

**I can notice when calculations are repeated. Then, I can find more general methods and short cuts.**

**As I work...**

...I think about what I’m trying to figure out while I pay attention to the details.

...I evaluate if my results are reasonable.

**EXAMPLE:** I have a container of yogurt that is $\frac{3}{4}$ full. One serving of yogurt is $\frac{1}{4}$ of the container. How many servings are left in the container?  

(THINK: How many $\frac{1}{4}$’s are in $\frac{3}{4}$’s?)

I can notice that $\frac{1}{4}$ is repeated and draw a model to figure out the number of servings left in the container.

Once I understand division of fractions, I can use a short cut to solve it like this.

$$\frac{3}{4} \div \frac{1}{4} = \frac{3}{4} \times \frac{4}{1} \rightarrow \frac{3}{4} \times \frac{4}{1} = \frac{12}{4} \rightarrow \frac{12}{4} = \frac{3}{1} \rightarrow \frac{3}{1} = 3$$