

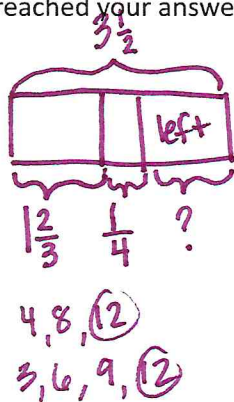
Grade 5 Module 3: End-of-Module REVIEW

Name _____

Date _____

1. On Sunday, Sheldon bought $3\frac{1}{2}$ kg of plant food. He used $1\frac{2}{3}$ kg on his strawberry plants and used $\frac{1}{4}$ kg for his tomato plants.

- a. How many kilograms of plant food did Sheldon have left? Write one or more equations to show how you reached your answer.



$$3\frac{1}{2} - \frac{1}{4} = 3\frac{1}{4} - \frac{2}{3}$$

$$= 2\frac{1}{4} - \frac{2}{3}$$

$$= 2\frac{3}{12} - \frac{8}{12}$$

$$= 1\frac{5}{12}$$

$$2\frac{\frac{1 \times 3}{4 \times 3}}{\frac{2 \times 4}{3 \times 4}} = 2\frac{3}{12} = \frac{8}{12}$$

$= 1\frac{7}{12}$ kg fertilizer is left

- b. Sheldon wants to feed his strawberry plants 2 more times and his tomato plants two more times. He will use the same amounts of plant food as before. How much plant food will he need? Does he have enough left to do so? Explain your answer using words, pictures, or numbers.

$$2 \times 4 = 8$$

$$3 \times 6 = 18$$

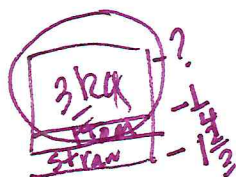
$$1\frac{2}{3} + 1\frac{2}{3} = 2\frac{4}{3} = 3\frac{1}{3} + \frac{1}{2} \rightarrow 3\frac{1 \times 2}{3 \times 2} + \frac{1 \times 3}{2 \times 3}$$

$$= 3\frac{2}{6} + \frac{3}{6}$$

$= 3\frac{5}{6}$ kg of plant food will be needed

$3\frac{5}{6} > 1\frac{7}{12}$
 ↓ what he needs ↓ what he has left
 No, he does not have enough because

? - Total Fert. = Enough?



$$\begin{array}{r} \dots \leftarrow 1\frac{2}{3} \\ \dots \leftarrow 1\frac{2}{3} \\ \dots \leftarrow 1\frac{1}{4} \\ \dots \leftarrow 1\frac{1}{4} \end{array} \rightarrow \text{Total Fertilizer}$$