5th Grade Module 3 Study Guide

Answer the questions below using pictures, numbers, or words to explain your thinking for each answer, including the multiple choice. (PS3.LT2)

$$1 + 3\frac{1}{6} =$$

$$4 + (\frac{1}{2} \times 3 \frac{3}{6}) + 3 + (\frac{1}{6} \times 1 \frac{1}{6})$$

$$(4 + 3) + (\frac{3}{6} + \frac{1}{6})$$

$$7 \frac{4}{6} = 7\frac{3}{3}$$

$$2. 2\frac{1}{4} - 1\frac{1}{5} =$$

$$\frac{3 + (\frac{1}{4} * 5 \frac{5}{20}) - 1 + (\frac{1}{5} * 4 \frac{4}{20})}{(2 - 1) + (\frac{5}{20} - \frac{4}{20})}$$

$$\frac{1}{20}$$

3. Select the two values that correctly represent the total of $2\frac{1}{3} + 3\frac{4}{5}$ $2 + (\frac{1}{3} * 5) + 3 + (\frac{1}{5} * 3) + \frac{12}{15}$

(a)
$$6\frac{2}{15}$$

b.
$$5\frac{5}{8}$$

c.
$$6\frac{17}{15}$$

$$(d.)$$
 5 $\frac{17}{15}$

4. Select the two values that correctly represent the difference between

$$6\frac{5}{12} - 2\frac{2}{3}$$

$$0\frac{1}{12} - 2\frac{1}{3}$$

b. 4
$$\frac{9}{12}$$

(a.) $3 \frac{9}{12}$

(c.)
$$3\frac{3}{4}$$

d. 4
$$\frac{3}{4}$$

12:(1)2(3)4 612

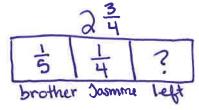
- 5. Jasmine had 2 $\frac{3}{4}$ gallon of milk. At breakfast, her brother drank $\frac{1}{5}$ gallon of milk and she drank $\frac{1}{4}$ gallon.
 - a. Which <u>two</u> expressions could Jasmine use to find out how many gallons of milk she has left?

A.
$$(2\frac{3}{4} + \frac{1}{5}) - \frac{1}{4}$$

(B)
$$2\frac{3}{4} - \frac{1}{5} - \frac{1}{4}$$

$$(C)$$
2 $\frac{3}{4}$ - $(\frac{1}{5}+\frac{1}{4})$

$$D_{*}$$
 $\frac{1}{5}$ - $\frac{1}{4}$ - $2\frac{3}{4}$



b. How many gallons of milk did Jasmine have left? Explain your answer using words, pictures, or numbers.

$$2\frac{3}{4} - \frac{1}{5} - \frac{1}{4}$$

$$2 + (\frac{3}{4} \times \frac{5}{20}) - (\frac{1}{5} \times \frac{5}{20}) - (\frac{1}{4} \times \frac{5}{20})$$

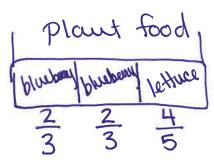
$$2\frac{1}{20} = 2\frac{3}{10}$$

$$2\frac{3}{4} - (\frac{1}{5} + \frac{1}{4})$$

$$2\frac{15}{20} - (\frac{1}{20} + \frac{5}{20})$$

$$2\frac{15}{20} - \frac{9}{20} = 2\frac{1}{20} = 2\frac{3}{10}$$

6. On Wednesday, Sheldon wants to feed his blueberry plants 2 times and his lettuce plants one time. If he uses $\frac{2}{3}$ kg on his blueberry plants <u>each time</u> and $\frac{4}{5}$ kg on his lettuce plant, how much plant food will he need <u>altogether?</u> Explain your answer using words, pictures, or numbers. Sheldon will use $\frac{2}{15}$ Kg of plant food



Sheldon will use
$$\frac{2}{3}$$
 $\frac{2}{3}$ $\frac{2}{3}$

Level 4

1. Elaine walked $1\frac{1}{4}$ miles. She then stopped at the soccer field. After playing at the soccer field, she walked another $2\frac{3}{5}$ miles and stopped to rest. Then, Elaine walked an additional $\frac{1}{2}$ mile. How many miles did Elaine walk altogether? Show your answer in **decimal form** to demonstrate level 4 knowledge.

Name:	

Date: _____

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2. Solve the expression (PS4.LT2)

$$3a^3 + 3a^2$$
 where $a = 4$

$$3(4)^{3} + 3(4)^{2}$$

$$3 \times (4 \times 4 \times 4) + 3 \times (4 \times 4)$$

$$(3 \times 64) + (3 \times 16)$$

$$192 + 48$$

$$= 240$$

$$192 + 48$$

$$192 + 48$$

$$193 + 48$$

$$193 + 48$$

$$194 - 163$$

$$194 - 163$$

$$198 + 48$$