Fractions in Real World (Addition and Subtraction)

Assignment   **Math 5**

Part A: Write ✔ before the statements that are true and ✗ if otherwise.

_____1. $\frac{1}{9} + \frac{1}{4} = \frac{1}{2} - \frac{5}{36}$.

_____2. If $\frac{5}{12} + \bullet = \frac{1}{2}$, then $\bullet = \frac{1}{4}$.

_____3. Given that $\heartsuit = \frac{2}{5}$, then $\heartsuit + \frac{1}{10} + \frac{1}{5} = \frac{9}{10}$.

_____4. Marian needs $5\frac{9}{10}$ liters of paint to repaint her room. If her sister gave her $2\frac{7}{10}$ liters of paint, she only needs $3\frac{2}{10}$ liters more.

Fractions in Real World (Addition and Subtraction)

Assignment   **Math 5**

Part B: Find the value of the symbols given below:

1.
$$♥ + \frac{2}{5} = \frac{7}{10}$$

♥ =

3.
$$◆ + \frac{1}{3} + \frac{2}{5} = \frac{9}{10}$$

◆ =

2.
$$★ - \frac{3}{4} = \frac{1}{12}$$

★ =

4.
$$☺ + \frac{1}{14} + \frac{1}{7} = \frac{9}{14}$$

☺ =

2   **MathTeacherCoach.com**

Fractions in Real World (Addition and Subtraction)

Assignment   **Math 5**

Part C: Solve the following problems using your knowledge in adding and subtracting fractions.

1. Rachel bought $12\frac{3}{4}$ kilogram of beef for their food truck business. Monica used $3\frac{1}{8}$ kilograms for the tacos and $4\frac{1}{4}$ kilograms for patties. How many kilograms of meat are left?

Fractions in Real World (Addition and Subtraction)

Assignment   **Math 5**

2. Matilda has $6\dfrac{4}{5}$ yards of washi tapes for her planner. She used $3\dfrac{1}{10}$ yards and gave some to her sister. If she now has $2\dfrac{3}{20}$ yards of washi tape, how long did she give her sister?

Fractions in Real World (Addition and Subtraction)

Assignment   **Math 5**

Part A: Write ✔ before the statements that are true and ✗ if otherwise.

_____✔_____1. $\frac{1}{9} + \frac{1}{4} = \frac{1}{2} - \frac{5}{36}$.

$$\frac{4}{36} + \frac{9}{36} = \frac{18}{36} - \frac{5}{36}$$

$$\frac{13}{36} = \frac{13}{36}$$

_____✗_____2. If $\frac{5}{12} + \bullet = \frac{1}{2}$, then $\bullet = \frac{1}{4}$.

$$\bullet = \frac{1}{2} - \frac{5}{12} = \frac{6}{12} - \frac{5}{12} = \frac{1}{12}$$

_____✗_____3. Given that $\heartsuit = \frac{2}{5}$, then $\heartsuit + \frac{1}{10} + \frac{1}{5} = \frac{9}{10}$.

$$\heartsuit + \frac{3}{10} = \frac{9}{10}$$

$$\heartsuit = \frac{6}{10} = \frac{3}{5}$$

_____✔_____4. Marian needs $5\frac{9}{10}$ liters of paint to repaint her room. If her sister gave her $2\frac{7}{10}$ liters of paint, she only needs $3\frac{2}{10}$ liters more.

$$5\frac{9}{10} - 2\frac{7}{10} = 3\frac{2}{10}$$

Fractions in Real World (Addition and Subtraction)

Assignment   **Math 5**

Part B: Find the value of the symbols given below:

1.

$$\heartsuit + \frac{2}{5} = \frac{7}{10}$$

$$\heartsuit = \frac{7}{10} - \frac{2}{5}$$

$$= \frac{7}{10} - \frac{4}{10}$$

$$= \frac{3}{10}$$

3.

$$\blacklozenge + \frac{1}{3} + \frac{2}{5} = \frac{9}{10}$$

$$\blacklozenge = \frac{9}{10} - \frac{1}{3} - \frac{2}{5}$$

$$= \frac{27}{30} - \frac{10}{30} - \frac{16}{30}$$

$$= \frac{27}{30} - \frac{10}{30} - \frac{16}{30}$$

$$= \frac{1}{30}$$

2.

$$\bigstar - \frac{3}{4} = \frac{1}{12}$$

$$\bigstar = \frac{1}{12} + \frac{3}{4}$$

$$= \frac{1}{12} + \frac{9}{12}$$

$$= \frac{10}{12}$$

$$= \frac{5}{6}$$

4.

$$\odot + \frac{1}{14} + \frac{1}{7} = \frac{9}{14}$$

$$\odot = \frac{9}{14} - \frac{1}{7} - \frac{1}{14}$$

$$= \frac{9}{14} - \frac{2}{14} - \frac{1}{14}$$

$$= \frac{6}{14}$$

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

6

MathTeacherCoach.com

Fractions in Real World (Addition and Subtraction)

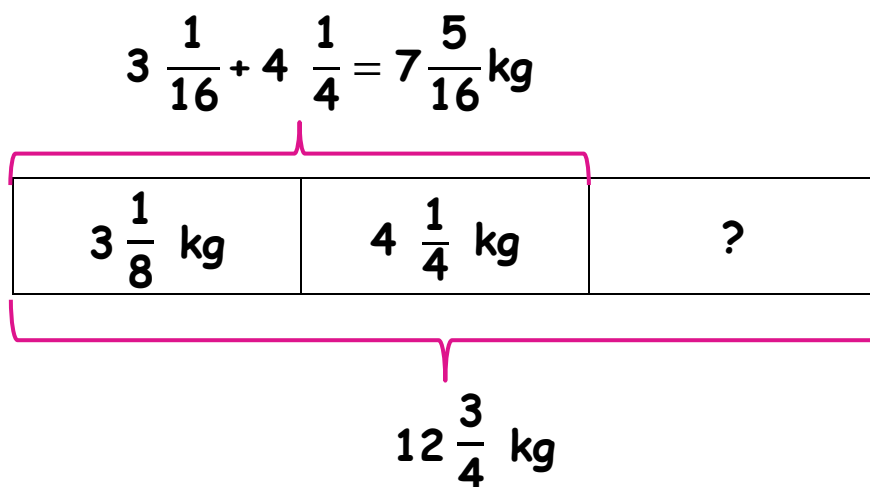Assignment   **Math 5**

Part C: Solve the following problems using your knowledge in adding and subtracting fractions.

1. Rachel bought $12\frac{3}{4}$ kilogram of beef for their food truck business. Monica used $3\frac{1}{8}$ kilograms for the tacos and $4\frac{1}{4}$ kilograms for patties. How many kilograms of meat are left?

$$3\frac{1}{16} + 4\frac{1}{4} = 7\frac{5}{16} \text{ kg}$$

$3\frac{1}{8}$ kg	$4\frac{1}{4}$ kg	?

$$12\frac{3}{4} \text{ kg}$$

To find value of the smaller part, we subtract $12\frac{3}{4}$ kg and $7\frac{5}{16}$ kg.

$$12\frac{3}{4} - 7\frac{5}{16}$$

$$= 12\frac{12}{16} - 7\frac{5}{16} = 5\frac{7}{16} \text{ kg}$$

➡ There's still $5\frac{7}{16}$ kg of meat left.

MathTeacherCoach.com

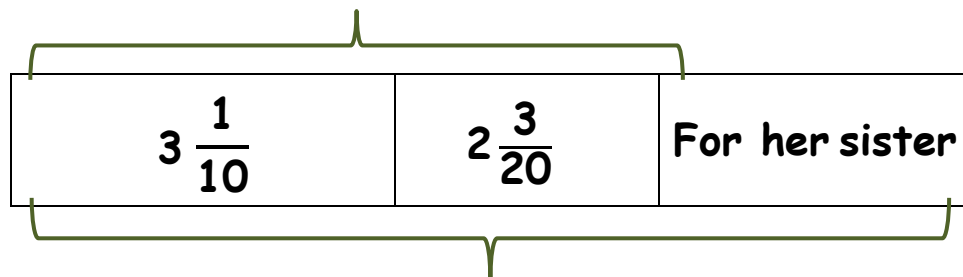**Fractions in Real World (Addition and Subtraction)**

Assignment   **Math 5**

2. Matilda has $6\frac{4}{5}$ yards of washi tapes for her planner. She used $3\frac{1}{10}$ yards and gave some to her sister. If she now has $2\frac{3}{20}$ yards of washi tape, how long did she give her sister?

$$3\frac{1}{10} + 2\frac{3}{20} = 5\frac{4}{20} \text{ km}$$

$3\frac{1}{10}$	$2\frac{3}{20}$	For her sister

$$6\frac{4}{5} \text{ yards}$$

To find the smaller block's value, we subtract $5\frac{4}{20}$ km and $6\frac{4}{5}$ km.

$$6\frac{4}{5} - 5\frac{4}{20}$$

$$= 6\frac{4}{5} - 5\frac{1}{5}$$

$$= 1\frac{3}{5} \text{ yards}$$

Matilda still has $1\frac{3}{5}$ yards.