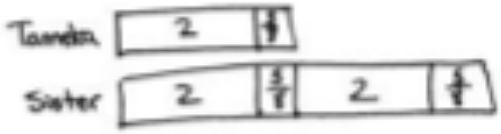
Lesson 39 Problem Set

Name Jack Date _____

Directions: Use the RDW process to solve.

1. Tameka ran $2\frac{5}{8}$ miles. Her sister ran twice as far. How far did Tameka's sister run?



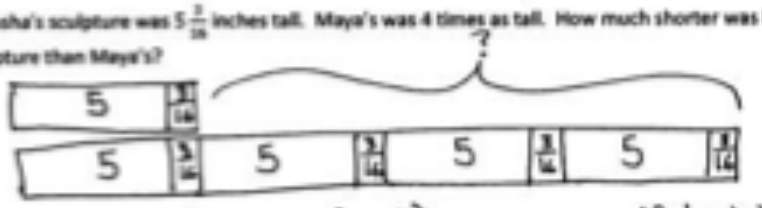
$2\frac{5}{8} + 2\frac{5}{8}$

$2 + 2 + \frac{5}{8} + \frac{5}{8}$

$= 4\frac{10}{8} = 5\frac{2}{8}$

Tameka's sister ran $5\frac{2}{8}$ miles

2. Natasha's sculpture was $5\frac{3}{16}$ inches tall. Maya's was 4 times as tall. How much shorter was Natasha's sculpture than Maya's?



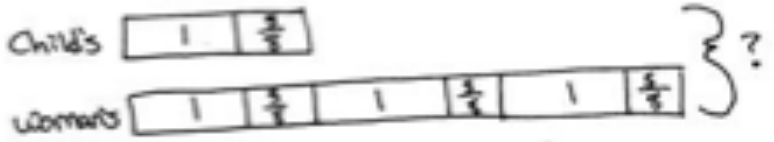
$3 \times 5\frac{3}{16} = 3 \times (5 + \frac{3}{16})$

$= (3 \times 5) + (3 \times \frac{3}{16})$

$= 15 + \frac{9}{16} = 15\frac{9}{16}$

Natasha's sculpture was $15\frac{9}{16}$ inches shorter than Maya's.

3. A seamstress needs $1\frac{5}{8}$ yards of fabric to make a child's dress. She needs 3 times as much fabric to make a woman's dress. How many yards of fabric does she need for both dresses?



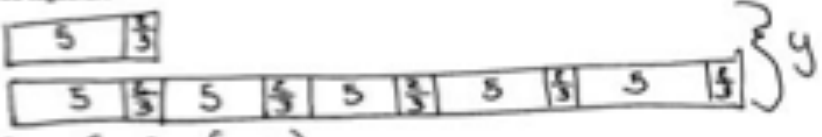
$4 \times (1 + \frac{5}{8})$

$= (4 \times 1) + (4 \times \frac{5}{8})$

$= 4 + \frac{20}{8} = 6\frac{4}{8}$

The seamstress needs $6\frac{4}{8}$ yards of fabric for both dresses.

4. A piece of blue yarn is $5\frac{2}{3}$ yards long. A piece of pink yarn is 5 times as long as the blue yarn. Bailey tied them together with a knot that took $\frac{1}{3}$ yard to make from each piece of yarn. What is the total length of the yarn tied together?



$6 \times 5\frac{2}{3} = (6 \times 5) + (6 \times \frac{2}{3})$

$= 30 + \frac{12}{3}$

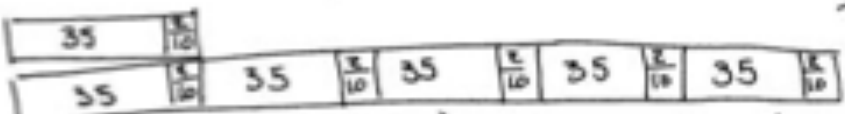
$= 34$

$34 - \frac{3}{3} = 33\frac{1}{3}$

33 1

The total length of the yarn tied together is $33\frac{1}{3}$ yards.

5. A truck driver drove $35\frac{2}{10}$ miles before he stopped for breakfast. He then drove 5 times as far before he stopped for lunch. How far did he drive that day before his lunch break?



35
x 6
210

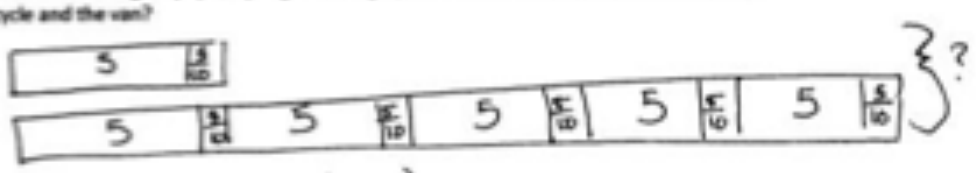
$6 \times 35\frac{2}{10} = (6 \times 35) + (6 \times \frac{2}{10})$

$= 210 + \frac{12}{10} = 211\frac{2}{10}$

60/10 2/10

The truck driver drove $211\frac{2}{10}$ miles before his lunch break.

6. Mr. Washington's motorcycle needs $5\frac{2}{10}$ gallons of gas to fill the tank. His van needs 5 times as much gas to fill it. If Mr. Washington pays $3 per gallon for gas, how much will it cost him to fill both the motorcycle and the van?



$6 \times 5\frac{2}{10} = (6 \times 5) + (6 \times \frac{2}{10})$

$= 30 + \frac{30}{10}$

$= 33$

33
x 3
99

It will cost Mr. Washington $99 to fill both the motorcycle and the van.