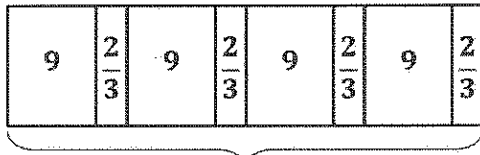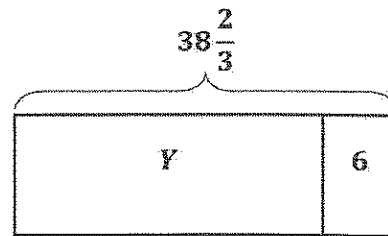# G4-M5-Lesson 39

1. It takes $9\frac{2}{3}$ yards of yarn to make one baby blanket. Upik needs four times as much yarn to make four baby blankets. She already has 6 yards of yarn. How many more yards of yarn does Upik need to buy in order to make four baby blankets?

| 9 | $\frac{2}{3}$ | 9 | $\frac{2}{3}$ | 9 | $\frac{2}{3}$ | 9 | $\frac{2}{3}$ |

B

$38\frac{2}{3}$

| Y | 6 |

$B = 4 \times 9\frac{2}{3}$

$= 4 \times \left(9 + \frac{2}{3}\right)$

$= (4 \times 9) + \left(4 \times \frac{2}{3}\right)$

$= 36 + \frac{8}{3}$

$= 36 + 2\frac{2}{3}$

$B = 38\frac{2}{3}$

> I multiply to solve for how many total yards of yarn it takes to make four baby blankets.

$Y = 38\frac{2}{3} - 6$
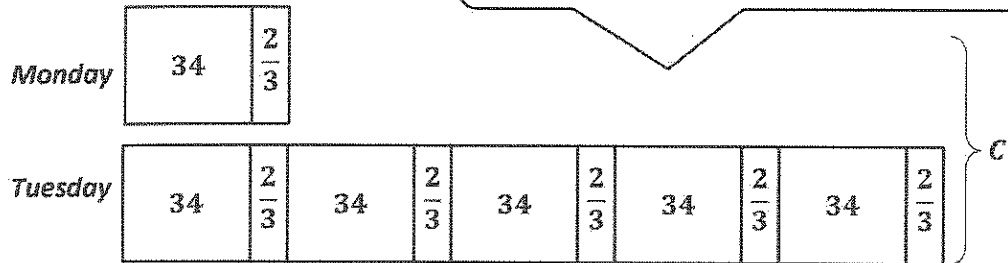
$= 32\frac{2}{3}$

> I subtract 6 yards of yarn that Upik already has.

Upik needs to buy $32\frac{2}{3}$ more yards of yarn.

Lesson 39: Solve multiplicative comparison word problems involving fractions.

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2. The caterpillar crawled $34\frac{2}{3}$ centimeters on Monday. He crawled 5 times as far on Tuesday. How far did he crawl in the two days?

> I use the tape diagram to find the most efficient way to solve. To solve for C, I find the value of 6 units.

Monday	34	$\frac{2}{3}$

Tuesday

34	$\frac{2}{3}$	34	$\frac{2}{3}$	34	$\frac{2}{3}$	34	$\frac{2}{3}$	34	$\frac{2}{3}$

$\Big\}\, C$

The caterpillar crawled 208 centimeters, or 2 meters 8 centimeters, on Monday and Tuesday.

$$C = 6 \times 34\frac{2}{3}$$
$$C = (6 \times 34) + \left(6 \times \frac{2}{3}\right)$$
$$C = 204 + \frac{12}{3}$$
$$C = 204 + 4$$
$$C = 208$$