**Sample Student Work – Pictorial Strategy** 



Under her picture, Amy wrote, "After food & house, 1/3 of original is left. After bills, 2/3 left (not of orig.). After ent., 1/6 of orig. is left. Therefore 1/6 of her paycheck is 150." Then, she computed 150x6 = 900 to reach her answer.



Becky started with \$150, added 50 to 150, added 100 to 200, added 450 to 300, and reached 750. Then she computed 1/6x750 = 125, added the 125 to 750, and reached her answer 875.

Cathy wrote, "1/6, 3/5, 1/3, 1/4 all divisible into 60" as a reason why she partitioned the rectangle into 60 parts as the first step in her strategy.

## Sample Student Work - Algebra

Algebraic Strategy 1



Under her equation, Dana wrote, "For my algebraic equation, you add all the numbers up and equal them to x."

<u>Algebraic Strategy 2</u>

$$x = whole / x = Emalys paycheck.$$

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

$$\frac{5}{6} x - (\frac{5}{6} \times \cdot \frac{3}{5} \times) = \frac{1}{3} \times \frac{1}{2x}$$

$$\frac{1}{3x} - (\frac{1}{3x} \cdot \frac{1}{3x}) = \frac{2}{9x}$$

$$\frac{1}{3x} - (\frac{1}{3x} \cdot \frac{1}{3x}) = \frac{2}{9x}$$

$$\frac{2}{9x} - (\frac{2}{9x} \cdot \frac{1}{4}) = 150$$

$$\frac{150 \times 6 = 900}{150 \times 6 = 900}$$

Algebraic Strategy 3 X=WM0 le (Emily's paycheck)  $\times -\frac{1}{6} = \frac{9}{60} \text{ of } X$   $249 \times -\frac{2}{9} \times \frac{1}{4}$   $5/60 \times -\frac{5}{60} \times \frac{3}{5}$   $2/9 \times -\frac{1}{10} \times \frac{1}{50}$   $5/60 \times -\frac{1}{2} \times \frac{1}{3} \times \frac{1}{6} \times \frac{150}{5}$  $1/3 \times -\frac{1}{9} \times \frac{1}{2} \times \frac{150}{5} \times \frac{1}{50} \times \frac{1}{5} \times \frac{150}{5} \times \frac{1}{5} \times \frac{150}{5} \times \frac{1}{5} \times \frac{1}{5}$ 

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