## Sample Student Work - Pictorial Strategy

## Pictorial Strategy 1


food

house

bills
ent

$\$ 150$

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 $150 \times 6=900$ to reach her answer.

Pictorial Strategy 3

Pictorial Strategy 2



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

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## Sample Student Work - Algebra

Algebraic Strategy 1

## $16+3 / 5+1 / 3+1 / 4+150=x$

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

Algebraic Strategy 2

$$
\begin{aligned}
& x=\text { whole } / x=\text { Emily paycheck } \\
& x-x / 1 / 6=\frac{5}{6} x \\
& \frac{5}{6} x-\left(\frac{5}{6} x \cdot \frac{3}{5} x\right)=1 / 3 x \\
& 1 / 3 x-(1 / 3 x \cdot 1 / 3 x)=2 / 9 x \\
& 2 / 9 x-(2 / 9 x \cdot 1 / 4)=150 \\
& 1 / 6 x=150 \quad 150 \times 6=900
\end{aligned}
$$

## Algebraic Strategy 3

$x=$ whole (Emily's paycheck)

$$
x-1 / 6=56007 x \quad 249 x-\left(2 / 9 x^{1 / 4}\right)
$$

$$
5 / 6 x=(516 \times 3 / 5) \quad 2 / 19 x-1 / 10=150
$$

$$
5 / 10 x-1 / 2 x=1 / 3 x, 1 / 6 x=150
$$

$$
1 / 3 x-(1 / 3 x+1 / 3) \quad \frac{1}{6}=\frac{500}{x}
$$

$$
1 / 3 x-1 / 9 x=2 / 9 x \quad 150 \times 6=900
$$

$$
x=\$ 900
$$

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