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4.3.11

Two things:

S: # of small frames
L: # of large frames

4.3.17

D: the cost of one hot dog
B: the cost of one hamburger

4.3.13

F: the first number
S: the second number

4.3.17

X: the number of quarts of 1% butterfat milk consumed
Y: the number of quarts of 6% butterfat milk consumed

4.3.19

V: the speed of the plane in still air
W: the speed of the wind
4.3.11

Two things:
S: # of small frames
L: # of large frames

4.3.17

D: the cost of one hat day
B: the cost of one hamburger

4.3.13

F: the first number
S: the second number

4.3.7

X: the number of quarts of 1 1/2 butterfat milk to be mixed
Y: the number of quarts of 6 1/2 butterfat milk to be mixed

4.3.19

P: the speed of the plane in still air
W: the speed of the wind
Step 2

4.3.11

$S$: # of small frames
$L$: # of large frames

\[ S + L = 16 \]
\[ 7S + 19L = 160 \]

$B$: Cost of one hamburger
$D$: Cost of one hot dog

\[ 5D + 48 = \$14.25 \]
\[ 4D + 5B = \$15.00 \]

4.3.13

$F$: the first number ("one number")
$S$: the second number

One number is eight less than a second number

\[ F = S - 8 \]

Six times the first is 6 more than 3 times the second

\[ 6F = 3S + 6 \]
4.3.7

\[ x = \# \text{ of quarts of } 4.5\% \text{ milk (quantity) } \]
\[ y = \# \text{ of quarts of } 6.7\% \text{ milk (quantity) } \]

\[ 0.01x + 0.06y = 4 \]
\[ x + y = 100 \]

Amount = \% \cdot \text{quantity}

\[ 1\% \cdot x = 0.01x \]
\[ 6\% \cdot y = 0.06y \]

\[ = 4\% \cdot 100 = 4 \]

4.3.19

P: the speed of the plane in still air
W: the speed of the wind

Distance = rate \cdot time

\[ d = r \cdot t \]

\[ \begin{align*}
3000 &= (P+W) \cdot 4 \\
3000 &= (P-W) \cdot 5
\end{align*} \]