Bellwork- Algebra 1

1. Write down your work for the week in your planner.
2. Take out your homework from Friday.
3. IXL THIS WEEK:
   S10, S11, S13, S16, S19
4. You will need a calculator and your composition book today.
5. Answer the following question on your MONDAY bellwork section.

Clint is in study hall reading The Hunger Games. After 20 minutes, he is on page 151. After 45 minutes, he is on page 181. How many pages had Clint read prior to study hall?

\[
\begin{align*}
  \text{m} &= \frac{181-151}{45-20} = \frac{30}{25} = 1.2 \\
  y - 151 &= 1.2(x - 20) \\
  y &= 1.2x + 127
\end{align*}
\]

\(127\)
17. You are buying $48 worth of two types of lawn seed. Ryegrass lawn seed sells for $0.70 per pound and Fescue lawn seed sells for $1.15 per pound. If you bought 25 pounds of Fescue lawn seed, write and solve a linear equation to find the amount of Ryegrass lawn seed purchased.

Standard

\[ 0.7x + 1.15y = 48 \]

Two points

\[ (2, 194) \]

\[ (6, 186) \]

27.5 pounds

18. Jeff is keeping track of his weight over several weeks. After 2 weeks, he weighs 194 pounds. After 6 weeks, he weighs 186 pounds. Write and solve a linear equation to find Jeff’s weight after 12 weeks.

Two points

\[ (2, 194) \]

\[ (6, 186) \]

\[ y - 194 = -2(x - 2) \]

\[ \frac{-8}{4} = -2 \]

\[ y - 194 = -a(10) \]

174 pounds
19. A landscape supply business charges $30 to deliver mulch. The cost of the mulch is $23 per cubic yard. Write and solve a linear equation to find the cost of having 8 cubic yards of mulch delivered to a site.

<table>
<thead>
<tr>
<th>Slope</th>
<th>Intercept</th>
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<tbody>
<tr>
<td>$m = 23$</td>
<td>$b = 30$</td>
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\[ y = 23x + 30 \]

(8)

\[ 184 + 30 = \$214 \]

20. Karen used a birthday check her mother gave her to start a savings account. She plans to save $25 per month as well. After 8 months, Karen has $250. Write and solve a linear equation to find the original check amount from Karen’s mother.

\[ y - 250 = 25(x - 8) \]

\[ y = 25x - 200 \]

\[ y = 25x + 50 \]