SSR

Read at a Level 0 until 9:15

Multiple Addends Opener

1. At Barnes and Noble I purchased 2 magazines each priced $4.99 and a book for $12.59. With 6.5% sales tax, what was my total bill?

\[
\begin{align*}
9.98 + 12.59 &= 22.57
\end{align*}
\]

2. Does the table below show a proportional relationship? If so, what is the equation that represents that relationship?

\[
\begin{array}{|c|c|}
\hline
x & y \\
0 & 0 \\
2 & 4 \\
4 & 8 \\
\hline
\end{array}
\]

\[
\frac{y}{x} = 2 = k
\]

3. Add:

\[
\begin{align*}
a. -5 &+ (-8) = -13 \\
b. 3 &+ (-18) = -15 \\
c. -5 &+ 9 = 4
\end{align*}
\]

\[
\begin{align*}
y &= 2x \\
100 &+ 6.5\% = 106.5\% \\
1.865 &\times 22.57 = 24.04
\end{align*}
\]
Learning Target

I can complete real world and mathematical adding integer problems containing multiple addends.
Adding Integers: Multiple Addends

Suggestions for Solving:
- Add all the negatives, add all the positives, and then add those two sums
- Add in the order that the problem is presented, adding just two numbers at a time

Examples:
1. \(-2 + 5 + (-9)\)
   \[-11 + 5 = \boxed{-6}\]
2. \(7 + (-12) + 8\)
   \[-5 + 8 = \boxed{+3}\]
3. \(-5 + (-7) + (-8) + (-10)\)
   \[-12 + (-8) + (-10) = \boxed{-30}\]
4. \(4 + (-8) + 15 + (-7)\)
   \[-15 + 19 = \boxed{+4}\]

5. John and Spike went golfing. On the first nine holes John's scores were 0, -1, +2, -2, 0, 0, +3, +1, and +1. Spike's scores were 0, -2, -1, -3, -3, -2, -2, -2, and 0. Who had the better score in terms of par after 9 holes? (In golf, the lower the score, the better!)
   - John
     \[0 + (-1) + 2 + (-2) + 0 + 3 + 1 + 1 = -3 + 7 = \boxed{+4}\]
   - Spike
     \[0 + (-2) + (-1) + 3 + 3 + 2 + (-2) + (-2) = -7 + 8 = \boxed{+1}\]
6. Mary opened a bank account with $500. During the first month, she deposited $250, withdrew $20, withdrew another $65, and then deposited $100. At the end of the month what was her account balance?

\[ \begin{align*}
+500 & \quad +250 & \quad -20 & \quad -65 & \quad +100 \\
\hline
\text{Total} & \quad 850 & \quad -85 & \quad +765 \\
\end{align*} \]

7. While playing Follow the Leader, students were directed to take 5 steps forward, 3 steps back, 4 steps forward, 6 steps back, and then 2 steps forward. Where did the students end up in relation to where they started?

\[ \begin{align*}
5 & \quad -3 & \quad +4 & \quad -6 & \quad +2 \\
11 & \quad -9 & \quad = \quad +2 \\
\text{2 steps forward} & \quad \text{forward} \\
\end{align*} \]
You have two minutes to get into groups and give rolls- quarterback, cheerleader, referee, coach

Expectations

Low Level 2 with your team
Switch to Math Football Smartboard

Summary

On the back of your opener, write and solve an integer addition problem containing 4 or more addends.