

SSR

Read at a Level 0 until 9:15

Oct 21-8:48 PM

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?

$$\begin{array}{r} 9.98 \\ +12.59 \\ \hline 22.57 \end{array}$$

$$100 + 6.5 = 106.5\%$$

$$1.065 \times 22.57 = 24.04$$

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

x	y
0	0
2	4
4	8

$$\frac{y}{x} = 2 = k$$

$$y = 2x$$

3. Add.

a. $-5 + (-8) = -13$

b. $3 + (-18) = -15$

c. $-5 + 9 = +4$

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Table Practice:

1. $-56 + 8 = -48$

2. $-13 + (-15) = -28$

3. $9 + (-25)$
 -16

4. $5 + (-10)$
 -5

5. $-8 + (-32)$
 -40

6. $2 + (-9)$
 -7

7. $-8 + (-13)$
 -21

8. $-25 + 18$
 -7

9. $14 + 9$
 $+23$

10. $-2 + 72$
 $+70$

11. $-16 + (-19)$
 -35

12. $13 + (-27)$
 -14

13. $-14 + (-9)$
 -23

14. $-2 + 17$
 $+15$

15. $-5 + 7$
 $+2$

16. $-36 + (-27)$
 -63

17. $17 + (-8)$
 $+9$

18. $-12 + (-17)$
 -29

19. $24 + (-9)$
 $+15$

20. $15 + 82$
 $+97$
 $\begin{array}{r} 82 \\ +15 \\ \hline 97 \end{array}$

21. $-17 + (-11)$
 -28

22. $9 + (-24)$
 -15

23. $13 + (-13)$
 0

24. $42 + (-17)$
 $+25$
 $\begin{array}{r} 42 \\ -17 \\ \hline 25 \end{array}$

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Learning Target

I can complete real world and mathematical adding integer problems containing multiple addends.

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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. $-2 + 5 + (-9)$

$$-11 + 5 = -6$$

2. $7 + (-12) + 8$

$$-5 + 8 = +3$$

3. $-5 + (-7) + (-8) + (-10)$

$$\begin{aligned} & -12 + -8 + -10 \\ & -20 + -10 = -30 \end{aligned}$$

4. $4 + (-8) + 15 + (-7)$

$$-15 + 19 = +4$$

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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, 0. Who had the better score in terms of par after 9 holes? (In golf, the lower the score the better!)

John

$$\begin{aligned} & \cancel{0} + -1 + 2 + -2 + \cancel{0} + 3 + 1 + 1 \\ & -3 + 7 = +4 \end{aligned}$$



Spike

$$\begin{aligned} & \cancel{0} + -2 + -1 + 3 + 3 + 2 + -2 + -2 \\ & -7 + 8 = +1 \end{aligned}$$

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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?



$$+500 + 250 + -20 + -65 + 100$$

$$\begin{array}{r} 500 \\ 250 \\ \hline 750 \\ 100 \\ \hline 850 \end{array}$$

$$850 + -85 = +765$$

$$\begin{array}{r} 65 \\ +20 \\ \hline 85 \end{array}$$

$$\begin{array}{r} 7 \quad 14 \quad 10 \\ 850 \\ -085 \\ \hline 765 \end{array}$$

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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?

$$5 + -3 + 4 + -6 + 2$$

$$11 + -9 = +2$$



2 steps forward

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Math Football - table practice



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You have **two minutes** to get into groups and give rolls- quarterback, cheerleader, referee, coach

Expectations

Low Level 2 with your team

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Switch to Math Football Smartboard

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Summary

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

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