

Do Now

Jordan records withdrawals and deposits in his checkbook. The starting balance is \$125. The first withdrawal is \$25. The second withdrawal is \$15. The first deposit is \$35. The second deposit is \$50. The third withdrawal is \$60. What is the final balance?

$$\begin{array}{r}
 \$125 \\
 -25 \\
 \hline
 100
 \end{array}
 \quad
 \begin{array}{r}
 \$100 \\
 -15 \\
 \hline
 85
 \end{array}
 \quad
 \begin{array}{r}
 \$85 \\
 +35 \\
 \hline
 120
 \end{array}
 \quad
 \begin{array}{r}
 \$120 \\
 +50 \\
 \hline
 \$170
 \end{array}
 \quad
 \begin{array}{r}
 \$170 \\
 -60 \\
 \hline
 \$110
 \end{array}$$

$125 + (-25) + (-15) + 35 + 50 + (-60)$

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2.2 Adding Integers (continued)

7.NS.1
7.EE.1

- SWBAT add integers.
- SWBAT understand numbers and understand meanings of operations.

Calculators: No

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Adding Integers

• Same sign

- add absolute value and keep sign

Ex.) $\overset{\text{Neg} + \text{Neg}}{-1} + -8$

$$1 + 8 = 9 \quad (-9)$$

Ex.) $\overset{\text{Pos} + \text{Pos}}{+3} + +6$

$$3 + 6 = 9 \quad (9)$$

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• Different signs

- subtract absolute value
- take the sign of number with the larger absolute value

Ex.) $\overset{\text{Neg} + \text{Pos}}{-2} + 7$

$$7 - 2 = 5 \quad (5)$$

Ex.) $\overset{\text{Pos} + \text{Neg}}{5} + -12$

$$12 - 5 = 7 \quad (-7)$$

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Find the sum.

a. $-54 + (-28) = (-82)$

$$\begin{array}{r}
 54 \\
 + 28 \\
 \hline
 82
 \end{array}$$

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b. $38 + (-17)$

$$(21)$$

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c. $-41 + 26$

 -15

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d. $-19 + (-11)$

 -30

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e. $52 + (-30) + (-46)$

Pos

Neg

$$\begin{array}{r} 52 \\ -30 \\ \hline 22 \end{array}$$

$$22 + (-46)$$

Pos

Neg

$$\begin{array}{r} 46 \\ -22 \\ \hline 24 \end{array}$$

 -24

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Exit Pass 2.2 Day 2

1. To add two integers with the same sign, _____ the absolute values and use the _____ sign.
2. To add two integers with different signs, _____ the absolute values and use the sign of the _____ absolute value.



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"Perfect practice makes perfect."

Working individually or with a partner, complete the classwork.

Worksheet 2.2**Adding Integers**• **Same sign**

- add absolute value
- keep the same sign

• **Different signs**

- subtract absolute value
- take sign of number with larger absolute value

$$29 + (-46) = -17$$

$$-29 + (-46) = -75$$



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 (23)

$$-8 + (-9) + (-3) + 1 + 2 + 5 + (-3) + 13$$

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Answers to Worksheet 2.2

- | | |
|------------------|-----------------------------------|
| 1. $-4 + 11 = 7$ | 14. never |
| 2. 1 | 15. never |
| 3. -5 | 16. never |
| 4. -9 | 17. sometimes |
| 5. 9 | 18. -13 |
| 6. -17 | 19. -9 |
| 7. -97 | 20. -30 |
| 8. -7 | 21. -140 |
| 9. 9 | 22. \$227 |
| 10. -41 | 23. -2; finished 2 seconds behind |
| 11. -43 | |
| 12. -68 | |
| 13. -121 | |

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Finish Worksheet 2.2



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