

NAME _____

Module 3 Integers
Lesson 1 Integers and Absolute Value

Independent Practice

3.1

Write a negative or positive number that correctly represents each statement.

- | | |
|--|--|
| 1. The average temperature in Canada is eight degrees below zero.
-8 | 2. The Eagles football team gained 15 yards on one play.
+15 |
| 3. Katie owes her mother \$25.
-25 | 4. Janice earned \$100.
+100 |

Write the opposite of each integer.

- | | |
|------------------------|----------------------|
| 5. -121
+121 | 6. +35
-35 |
|------------------------|----------------------|

Find the absolute value.

- | | |
|-------------------------|--------------------------|
| 7. $ -66 $
66 | 8. $ 51 $
51 |
| 9. $ 3 $
3 | 10. $ -90 $
90 |

Compare each set of numbers. Write $>$ or $<$.

- | | |
|--|--|
| 11. 3 <u> </u> -2
$>$ | 12. -8 <u> </u> -4
$<$ |
| 13. -1 <u> </u> 0
$<$ | 14. -3 <u> </u> -11
$>$ |

Order the following lists of numbers from least to greatest.

- | | |
|---|---|
| 15. 6, -4, 4, 5, -5, 1
-5, -4, 1, 4, 5, 6 | 16. 0, 2, 1, 3, -1, -3, -2
-3, -2, -1, 0, 1, 2, 3 |
| 17. -9, 7, 10, -10, -12, 6, -4
-12, -10, -9, -4, 6, 7, 10 | 18. -15, -5, 12, 3, 0, -1, 1
-15, -5, -1, 0, 1, 3, 12 |

Journal

1. What is one way that absolute value could be used in an everyday situation? Explain.
2. Begin at zero on a number line. What is the total distance walked, in units, if you walk four units to the left of zero and from that point, walk seven units to the right? Explain.
3. On what number would you land on the number line described in Question 2? Explain.
4. If you begin on the point negative five on a number line and travel negative eight more units, would you be further away or closer to zero? Explain.
5. On what number would you land on the number line described in Question 4? Explain.

Cumulative Review

Add or subtract to solve.

1. In January, the local newspaper sold 11,349 papers. In February, it sold 8,995 papers. What is the difference in sales between January and February?
2,354 newspapers

Estimate before multiplying. Use the Partial Products Method of multiplying.

2. 227×8
 $\approx 1,600$
 $= 1,816$
3. If Dan sold 478 boxes of candy bars and there were 19 bars per box, how many candy bars did Dan sell?
 $\approx 10,000$
 $= 9,082$ candy bars

Divide. Use the Partial Quotients Method.

4. Jayne types an equal number of pages per day. If she works 18 days and types 630 pages, how many pages does she type per day?
35 pages
5. Beth spent \$1,288 on 14 equally priced graphing calculators for her classroom. How much did each calculator cost?
\$92 per calculator

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Divide. Answer each question by interpreting the remainder.

6. After dividing 112 one-dollar bills equally between six people, Larry is allowed to keep the money that is left over. How much money will Larry be allowed to keep?
\$4, use the remainder.
7. Mrs. Tanner needs enough equipment for each student to perform a science experiment in her classroom. She must order equipment that is sold 10 complete sets to a box. How many boxes should she order if she has 84 students?
9 boxes, increase the quotient.

Solve. Use one of the following problem-solving strategies: *Draw a Diagram, Make a List, Guess and Check, Find a Pattern.*

8. What are the next three numbers in this sequence of numbers?
2, -4, 3, -9, 4, -16, 5, -25 ...
6, -36, 7
9. Find the missing digits in the following multiplication problem.

$$\begin{array}{r} \square 48 \\ \times \square \\ \hline 1, \square \square 4 \end{array}$$

Many answers are possible.
Possible answer: 148
$$\begin{array}{r} \times 8 \\ \hline 1,184 \end{array}$$

Possible Journal Answers

1. School is four blocks east of my house. My grandmother's house is four blocks north of my house. Both places are four blocks from my house regardless of direction.
2. Eleven units; the total distance traveled is four blocks plus seven blocks.
3. Three; from zero, travel four to the left. That puts me on negative four. From there, travel seven to the right, that makes me pass zero and go three more units to the right of zero.
4. Further away; to travel negative eight units from negative five, I would have to move to the left which takes me further away from zero.
5. Negative thirteen; traveling negative eight, which is eight to the left, from negative five would put me on the integer -13.