

6.2 Exercises



Vocabulary and Concept Check

1. **WRITING** Explain how to use a number line to compare two integers.

3. **NUMBER SENSE** a and b are negative integers. Compare a and b . Explain your reasoning.



TURN OVER →

ERROR ANALYSIS Describe and correct the error in comparing the negative numbers.

12.



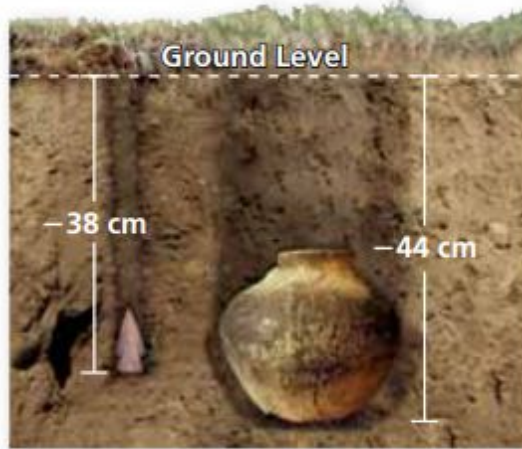
Compare -3 and -1 .
 $3 > 1$. So, $-3 > -1$.

Order the integers from least to greatest.

16. $-2, 3, -3, -4, 4$

18. $10, -10, 30, -30, -50$

20. **ARCHAEOLOGY** An archaeologist discovers the two artifacts shown.
- What integer represents ground level?
 - A dinosaur bone is found 42 centimeters below ground level. Is it deeper than both of the artifacts?



a. _____

b. _____

- 4 22. **REASONING** A number is between -2 and -10 . What is the least possible integer value of this number? What is the greatest possible integer value of this number? _____

Least possible: _____ Greatest possible: _____

26. **NUMBER LINE** Point A is on a number line halfway between -17 and 5 . Point B is halfway between point A and 0 . What integer does point B represent?

28. **Puzzle** Nine students choose integers. Here are seven of them:

5, -8, 10, -1, -12, -20, and 1.

- a. When all nine integers are ordered from least to greatest, the middle integer is 1. Describe the integers chosen by the other two students.
- b. When all nine integers are ordered from least to greatest, the middle integer is -3. Describe the integers chosen by the other two students.

a. _____

b. _____



Fair Game Review What you learned in previous grades & lessons

Graph the decimal on a number line. *(Skills Review Handbook)*

29. 2.4

30. 1.3

31. 0.65

32. 2.45

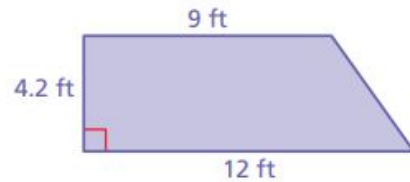
33. **MULTIPLE CHOICE** What is the area of the trapezoid? *(Section 4.3)*

(A) 6.3 ft^2

(B) 44.1 ft^2

(C) 50.4 ft^2

(D) 88.2 ft^2



29.

30.

31.

32.

