

Name: _____

Practice Test - Integers

1. In your own words, what's **absolute value**?

Evaluate each expression.

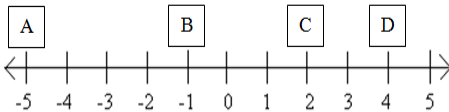
5. $|45|$

6. $|-45|$

7. $-|45|$

8. $-|-45|$

2. Circle the letter that represents the integer with the highest absolute value.



9. $|-15 - 18 - 8|$

3. President Obama is putting, and the hole is 115 inches away. He hits three putts:

- Putt #1 - 100 inches
- Putt #2 - 125 inches
- Putt #3 - 105 inches

10. $|-18| - |-5|$

Assuming that he hit each putt pretty straight,

a) What was his worst putt?

b) What was his best putt?



11. $|-5| + |4|$

c) In one sentence, explain how this relates to absolute value.

12. $17 - ||-9| + 3|$

4. Please complete this answer sheet:

1. Question: $|5|$ = Answer: 5

2. Question: $|-6.2|$ = Answer: _____

3. Question: $-|6.2|$ = Answer: _____

4. Question: $|\underline{\hspace{1cm}}|$ = Answer: 150

or

Question: $|\underline{\hspace{1cm}}|$ = Answer: 150

13. In your own words, what's an **integer**?

14. a. List 3 integers:

b. List 3 **non**-integers:

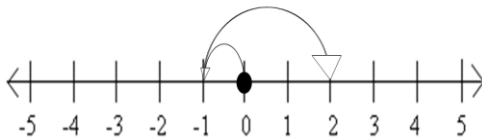
15. a. What is the math problem being modelled below?

b. Circle and draw an arrow the final sum of counters.



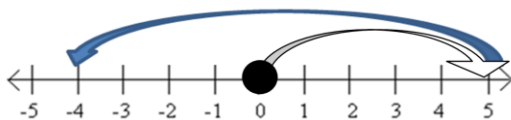
16. a. What is the math problem that is being modelled below?

b. Circle and draw an arrow the final answer on the number line.



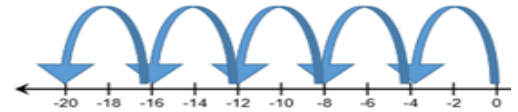
17. a. What is the math problem that is being modelled below?

b. Circle and draw an arrow the final answer on the number line.



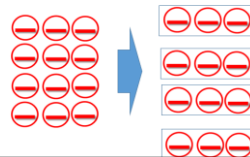
18. a. What is the math problem being modelled below?

b. Circle and draw an arrow to the answer.

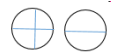


19. a. What is the math problem being modelled below?

b. Circle and draw an arrow to the answer.

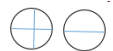


20. a. Model $-9 + 2$ with counters .



b. Circle and draw an arrow to the part of your model that shows the sum of $-9 + 2$

21. a. Model $\frac{-12}{3}$ with counters .



b. Circle and draw an arrow to the part of your model that shows the quotient of $\frac{-12}{3}$

22. 6 golfers played golf for Valley, and 5 golfers played for Woodgrove. Here are the scores for the golfers on each team:

a. Find each team's **total** sum of scores.

Loudoun Valley's scores:

+2 , -3 , -1 , +4 , -5 , -3

Woodgrove's scores:

-2 , +3 , -4 , -1 , -6

b. Find each team's **average** score.

c. In golf, the lowest score wins. So, who won?

23. The temperature of a chemical begins at -23°F . After a chemical reaction, the temperature moves by -35°F .

- What was the temperature at the end?

_____ = _____

24. In Vladivostok, Siberia, the noon temperature was 13°C , but it dropped to -31°C by midnight.

- What was change in temperature?

- _____ = _____
25. Comstock Lode Mining Company wants to drill down to an elevation of -168 . They plan to take 12 days to get there.

- Sketch a picture that models this problem.

- How much did the elevation change each day?

_____ = _____

26. If Allie washes the dishes, she earns \$2. If she forgets, she owes her folks \$2. She started this week owing her folks \$4.

- How many days will it take for her to earn a total of \$10?

_____ = _____

27. If you drop a baseball in the Great Salt Lake, it will fall 20 inches every second. The lake bottom has an elevation of -440 inches.

- Sketch a picture that models this problem.

- How long will it take for the ball to hit the bottom?

_____ = _____
 28. Marshall's typewriter store is open 35 hours every week. He never sells any typewriters anymore, but he owes \$9/hour for rent.

- What will be his total income (or loss) for the week?

_____ = _____

29. In the frigid cold of Prudhoe Bay, AK, a body's temperature will drop 1.5 degrees for every hour outside. A trucker is stranded outside for 3.5 hours.

- What will be the trucker's total change in temperature?

_____ = _____

30. Jeff won a contest to play a round of golf with Phil Mickleson. Mickleson's final score was -6 , but Jeff shot $+24$.

- What is the difference between Phil and Jeff's scores?

_____ = _____

31. Here is a portion of Matt's checking account statement. Find the new balance after every transaction.

<u>Beginning Balance</u>		<u>\$77</u>
– check #154	(–\$15)	_____
– deposit	\$10	_____
– ATM withdrawal	(–\$50)	_____
– check #155	(–\$30)	_____

32. Moe rents a space at the mall, and he sells sunglasses. His first four days go like this:

- **Monday: loss of \$167**
- **Tuesday: loss of \$79**
- **Wednesday profit of \$21**
- **Thursday loss of \$15**

What was the change in sales from:

a. Monday $\longrightarrow$ Tuesday

b. Wednesday $\longrightarrow$ Thursday

33. Two integers have a sum of -11 and a difference of 5. What are the two integers?

Evaluate each expression.

34. $21 - (-12)$

35. $-100 \div (-10)$

36. $(4)(-13)$

37. $\frac{200}{-8}$

38. $-19 - 22$

39. $14 \bullet (-3)$

40. $23 + (-44)$

41. $-9 - (-25)$

42. $\frac{-20}{-5}$

43. $-19 + (-4)$

44. $-44 \div 11$

45. $-80 / 8$

46. $-10 + 14$

47. $-13 - (-15)$

48. $-4 \bullet 5$

49. $8 - 15$

50. $-8(-4)$

51. $28 + (-16)$

52. $-38 + 31$

$$53. -6(9)(2)$$

$$58. \frac{24(-20)}{4 + (-5)}$$

$$54. 5 + 4 - 12 \bullet 2 \div 2$$

$$59. \frac{4 - 36}{12 - (-4)}$$

$$55. 20 - (-14) - 3 \bullet (-8)$$

$$60. \left[\frac{-9 \bullet 6 - 2}{11 + (-6) + 3} \right] + 7$$

$$56. (4 \bullet 1 - 8)10$$

$$61. \frac{-14 \bullet 3 + 10}{2 - (7 + 3)}$$

$$57. -2[(-8 + 13) \div -1]$$