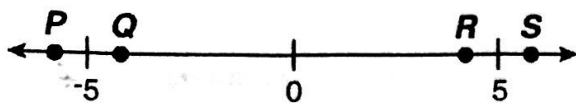


Learning Goal 1.1 - Integers

Name: Key

Date: \_\_\_\_\_

1. Look at the number line.



What point shows the location of  $-6$  on the number line?

- A. Point  $P$                       B. Point  $Q$   
 C. Point  $R$                       D. Point  $S$

2. The chart below shows the temperature at noon during a week in January.

Day	Temperature
Monday	$0^{\circ}\text{F}$
Tuesday	$6^{\circ}\text{F}$
Wednesday	$-2^{\circ}\text{F}$
Thursday	$-8^{\circ}\text{F}$
Friday	$8^{\circ}\text{F}$

Which day was the coldest?

- A. Monday                      B. Tuesday  
 C. Wednesday                D. Thursday

3. Students evaluated algebraic expressions that used positive and negative numbers.

Which phrase will have a negative answer?

- A. The opposite of  $72$   
 B. The opposite of  $-72$   
 C. The absolute value of  $72$   
 D. The absolute value of  $-72$

4. Jeff recorded the average temperatures for six months. He will display the temperatures on a number line.

Month	Temperature ( $^{\circ}\text{F}$ )
December	$-5$
January	$-16$
February	$-15$
March	$20$
April	$24$
May	$35$

On the number line, which month's temperature will be between February's and March's temperatures?

- A. December                      B. January  
 C. April                              D. May

5. What is the value of the expression below?

$$-3(-4)$$

- A.  $-12$     B.  $-7$     C.  $7$     D.  $12$

6. Which expression has a value of  $-3$ ?

- A.  $-7 + (4) = -11$               B.  $-4 + (+7) = 3$   
 C.  $-7 + (+4) = -3$               D.  $-4 + (7) = 11$

7.  $12 \div -3 =$

- A.  $9$     B.  $4$     C.  $-\frac{1}{4}$     D.  $-4$

8.  $4 + (-3) =$

- A. -7   B. -1   **C. 1**   D. 7

9. Simplify:  $-36 \div (4)$

- A. -9**   B. +9   C.  $-\frac{1}{9}$    D.  $+\frac{1}{9}$

10. What is the value of the expression below?

$2 + (-5)$

- A. 7   B. 3   **C. -3**   D. -7

11. What is the value of the expression below?

$-13 + (+9)$

- A. 22   B. 4   **C. -4**   D. -22

12. What is the value of the expression below?

$-5 + |9 - 11|$

- A. -7   **B. -3**   C. 15   D. 25

$-5 + 2$

13. What is the value of the expression below?

$(-4) + 6$

- A. -10   B. -2   **C. 2**   D. 10

14. What is the quotient when 51 is divided by -17?

- A. 34   B. 3   **C. -3**   D. -34

$\frac{51}{-17} = -3$

15. Find the product.  $(10)(-5)$

- A. -50**   B. -5   C. 5   D. 50

16. Which expression is equivalent to  $-8 + 12$ ?

- A. -8 + (-12)**   B.  $8 - 12$   
C.  $-8 - (-12)$    D.  $8 + 12$

17. What is the value of the expression shown below?

$-6 + (-9)$

- A. -15**   B. -3   C. 3   D. 15

18. The temperature in Flagstaff was  $-5^\circ\text{C}$  when Sandy went to bed. The temperature dropped  $20^\circ\text{C}$  during the night. Which integer represents the change in temperature?

- A.  $-25^\circ\text{C}$**    B.  $-20^\circ\text{C}$   
C.  $20^\circ\text{C}$    D.  $25^\circ\text{C}$

19. A dolphin was swimming at 20 feet below sea level. Then it dove to 45 feet below its original position. Which integer represents the depth of the dolphin's dive?

- A. -45 feet**   B. -20 feet  
C. 20 feet   D. 45 feet

20. On a winter Monday in Prescott, the temperature at 8 a.m. was  $-8^{\circ}\text{F}$ . At 1 p.m. it was  $27^{\circ}\text{F}$ . By how many degrees did the temperature change from morning to afternoon?

- A.  $-35^{\circ}$  B.  $-19^{\circ}$  C.  $19^{\circ}$  **D.  $35^{\circ}$**

$-8^{\circ}$  to  $27^{\circ}$

From  $-8$  to  $0 = 8$

$0$  to  $27 = 27$

21. One morning, the temperature was  $5^{\circ}$  below zero. By noon, the temperature rose  $20^{\circ}$  Fahrenheit (F) and then dropped  $8^{\circ}\text{F}$  by evening. What was the evening temperature?

- A.  $17^{\circ}$  below zero B.  $15^{\circ}$  below zero  
C.  $12^{\circ}$  above zero **D.  $7^{\circ}$  above zero**

$-5 + 20 = 15 - 8 = 7$

22. The low temperatures in January of five Alaskan cities are shown in the table below.

January Low Temperatures

City	Temperature ( $^{\circ}\text{F}$ )
Barrow	$-20$
Dillingham	$9$
Galena	$-16$
Kuparuk	<b><math>-24</math></b>
Skagway	<b><math>18</math></b>

What is the difference between the warmest and coldest temperatures?

- A.  $-6^{\circ}\text{F}$  B.  $6^{\circ}\text{F}$   
C.  $15^{\circ}\text{F}$  **D.  $42^{\circ}\text{F}$**

$18^{\circ} \rightarrow -24^{\circ}$

From  $18$  to  $0 = 18^{\circ}$

From  $0$  to  $24 = 24^{\circ}$   
 $-42^{\circ}$



23. An example of an irrational number is

- A.  $5\sqrt{3}$  **B.  $\sqrt{5}$**  C.  $0$  D.  $-\frac{11}{6}$

24. The set of real numbers shown below is a subset of which of the following?

$\{\frac{2}{3}, 3, -\frac{2}{5}, 0.57\}$

- A. rational** B. irrationals  
C. integers D. whole numbers

25. Which number line shows Point  $P$  located closest to  $-15$ ?

