

Worksheet: Absolute Values of Integers



In this worksheet, we will practice finding the absolute value of an integer and representing it on the number line and comparing and ordering the absolute values of different numbers.

Q1: Fill in the blank: $|-30|$ ___ -30 .

A =

B >

C <

Q2: An excavation team at an altitude of -82 m saw a hot air balloon that was at an altitude of 49 m. Which of them was closer to sea level?

A The balloon.

B The excavation team.

Q3: Which number is further from zero, $+7.25$ or -7.75 ?

A -7.75

B $+7.25$

Q4: $|-51| = \underline{\hspace{1cm}}$.

A 51

B -51



Question Video

Q5: Which is less, $\left|-30\frac{1}{2}\right|$ or -22 ?

A -22

B $\left|-30\frac{1}{2}\right|$

Q6: Complete: $|-19| \underline{\hspace{1cm}} |19|$.

A =

B >

C <

Q7: Which of the following is true?

A $|-125| < -125$

B $|-125| = -125$

C $|-125| > -125$

Q8: Which of the following is true?

A $|27| < |44|$

B $|27| = |44|$

C $|27| > |44|$

Q9: Which of the following is true?

A $|9| < -|-9|$

B $|9| = -|-9|$

C $|9| > -|-9|$

Q10: A helicopter is hovering at a height of 647 ft, and a diving bell is at -567 ft. Which one is farther from the sea level?

A diving bell

B helicopter

Q11: A diver swims at -15.6 meters. A hiker ascends to 16.8 meters. Which of them is at the greater altitude?

A the diver

B the hiker

Q12: Two friends, Hannah and Jennifer, decided to exercise to lose weight. After one month, the change in Hannah's weight was $-3\frac{1}{2}$ and the change in Jennifer's weight was $-4\frac{1}{4}$. Which of them had the greater change in her weight?

A Jennifer

B Hannah

Q13: Determine whether the following is true or false: $|-4| > |-1|$.

A false

B true

Q14: Which is greater, $|10|$ or 9 added to 4?

A $|10|$

B 9 added to 4

Q15: Jacob is doing research on the world's seas. He found that the deepest point in the Mediterranean Sea is 4 632 meters below sea level, while the deepest point in the Bering Sea is 4 773 meters below sea level. Which point has the greater elevation?

A The deepest point in the Bering Sea

B The deepest point in the Mediterranean Sea

Q16: Which of the following is true?

A $|-28| \div 7 = 70 \div |-10|$

B $|-28| \div 7 > 70 \div |-10|$

C $|-28| \div 7 < 70 \div |-10|$

Q17: If $x = -13$ and $y = 13$, which of the following statements is false?

A $|y| > 1$

B $|x| = y$

C $|x| < 1$

D $|x| = |y|$

Q18: Which of the following is true?

A $-96 = |-96|$

B $-96 > |-96|$

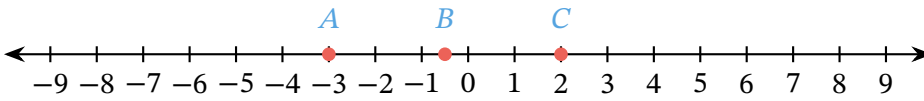
C $-96 < |-96|$

Q19: The elevation of Laguna del Carbon in Argentina is 105 meters below sea level, while that of Death Valley in the United States is 86 meters below sea level. Which of these two locations has a higher elevation?

A Laguna del Carbon

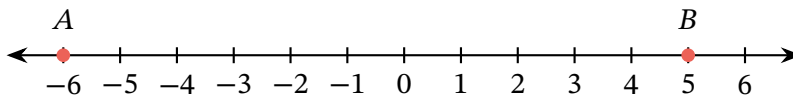
B Death Valley

Q20: Use the number line to order the points from greatest absolute value to least absolute value.



- A A, B, C
- B B, C, A
- C A, C, B
- D C, B, A
- E C, A, B

Q21: Which of the following statements is true?



- A $| = |$
- B $| < |$
- C $| > |$
- D $A > |$
- E $A = |$

Q22: If $a = -20$, $b = -2$, and $c = 13$, write the variables in order from the one with least absolute value to the one with greatest absolute value.

A a, b, c

B b, c, a

C c, b, a

D a, c, b

E b, a, c

Q23: The temperatures in a city on 3 consecutive days were -12°F , 0°F , and -15°F . Order the temperatures from lowest to highest.

A $0^{\circ}\text{F}, -12^{\circ}\text{F}, -15^{\circ}\text{F}$

B $-12^{\circ}\text{F}, 0^{\circ}\text{F}, -15^{\circ}\text{F}$

C $-12^{\circ}\text{F}, -15^{\circ}\text{F}, 0^{\circ}\text{F}$

D $0^{\circ}\text{F}, -15^{\circ}\text{F}, -12^{\circ}\text{F}$

E $-15^{\circ}\text{F}, -12^{\circ}\text{F}, 0^{\circ}\text{F}$

Q24: Arrange the following in descending order: 6, 18, -10 , 1, $|-16|$.

A 18, 6, 1, -10 , -16

B 18, 16, 6, 1, -10

C -10 , 1, 6, 16, 18

D -16 , -10 , 1, 6, 18



Question Video

Q25: The table shows Mason's bank account summary of last week.

Transaction	A	B	C	D	E
Date	March 8	March 10	March 11	March 12	March 14
Amount	+48.56	-124.45	-362.12	+422.49	-54.00

Which transaction involved the largest amount of money?

- A D
- B A
- C C
- D B