

Integers and Negatives

Circle the letter of the best answer.

Name _____

Date _____

1. Which is greater, -8 or -3?

A) Cannot be compared B) -8 C) -3 D) They are equal

Working

2. Work out $-4 + (-3)$.

A) -1 B) -7 C) 7 D) 1

Working

3. Work out $5 - (-2)$.

A) -7 B) 3 C) -3 D) 7

Working

4. Work out -36 divided by 6.

A) -6 B) 18 C) 6 D) 30

Working

5. A temperature is -2 degrees. It rises by 5 degrees. What is the new temperature?

A) -3 degrees B) 3 degrees C) 7 degrees D) -7 degrees

Working

6. What is the distance between -7 and 5 on the number line?

A) 12 B) 2 C) -12 D) -2

Working

7. Put these in order from smallest to largest: -3, 2, 0.

A) 2, 0, -3 B) -3, 2, 0 C) -3, 0, 2 D) 0, -3, 2

Working

8. What must be added to -12 to get 5?

A) -7 B) 7 C) -17 D) 17

Working

9. Solve for x: $-3(x + 2) = 9$.

A) 1 B) -5 C) 5 D) -1

Working

10. Work out $(-2)^3 + (-3)^2$.

A) 1 B) -1 C) -17 D) 17

Working

Answer key — fold under before giving this to a child

1. C 2. B 3. D 4. A 5. B 6. A 7. C 8. D 9. B 10. A

1. C) -3

On the number line, -3 is closer to zero than -8, so -3 is the greater number.

2. B) -7

When adding two negative numbers, add their sizes and keep the negative sign, giving -7.

3. D) 7

Subtracting a negative number is the same as adding the positive version, so $5 - (-2)$ becomes $5 + 2 = 7$.

4. A) -6

A negative number divided by a positive number gives a negative result, so -36 divided by 6 is -6.

5. B) 3 degrees

Rising by 5 means adding 5, so $-2 + 5 = 3$ degrees.

6. A) 12

Distance is the size of the difference: $5 - (-7) = 5 + 7 = 12$. Counting on the number line gives the same: 7 steps from -7 up to 0, then 5 more up to 5.

7. C) -3, 0, 2

Negative numbers are always less than zero, and zero is less than positive numbers, so the order is -3, 0, 2.

8. D) 17

Since $-12 + 17 = 5$, the missing number that must be added is 17.

9. B) -5

Dividing both sides by -3 gives $x + 2 = -3$, so $x = -3 - 2 = -5$.

10. A) 1

$(-2)^3$ means $-2 \times -2 \times -2 = -8$, and $(-3)^2$ means $-3 \times -3 = 9$, so $-8 + 9 = 1$.