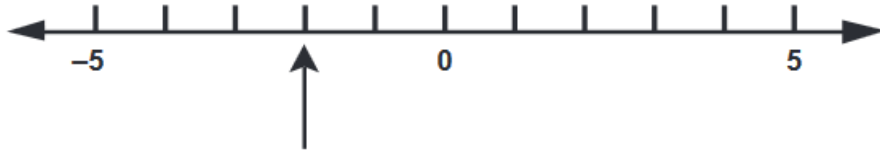


Directed Numbers iRA / tRA

Question 1



On the number line, what is this arrow pointing to?

- A 2 B -2 C 10 D -10

Question 2

Tanya recorded temperatures on a mountain over four days.

Which list gives four temperatures arranged in order from lowest to highest?

- A 0°C , -3°C , 4°C , -5°C
B -3°C , -5°C , 0°C , 4°C
C -5°C , 4°C , -3°C , 0°C
D -5°C , -3°C , 0°C , 4°C

Question 3

The maximum daily temperatures in Paris and New York were recorded over a week in January.

| | Sun | Mon | Tues | Wed | Thurs | Fri | Sat |
|----------|-----|-----|------|-----|-------|-----|-----|
| Paris | 2 | 2 | -1 | 1 | 4 | -3 | -2 |
| New York | -4 | -3 | 0 | 1 | -1 | -2 | 2 |

On which day is the greatest difference in temperature?

- A Sunday B Monday C Thursday D Friday

Question 4

One day at White Cliffs, the maximum daytime temperature was 46°C .
The overnight minimum was 57°C colder than the maximum had been.

What was White Cliffs' overnight minimum temperature?

-11°C

A

-9°C

B

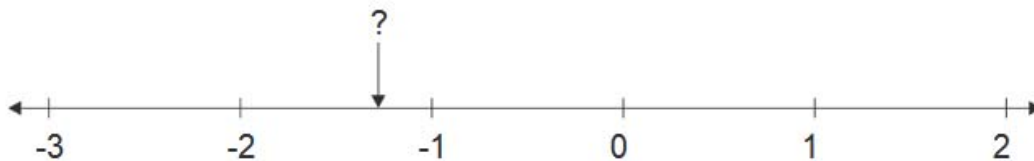
9°C

C

11°C

D

Question 5



The value of the number that the vertical arrow is pointing to on this number line is closest to

1.3

A

-0.7

B

-2.7

C

-1.3

D

Question 6

Which of these is correct?

A $-10 < -9$

B $-9 > -3$

C $0 < -5$

D $-2 > 0$

Question 7

Which is the coldest temperature?

7°C

A

18°C

B

-4°C

C

-14°C

D

Question 8

Which is the warmest temperature?

- A -14°C
- B -18°C
- C -4°C
- D -5°C

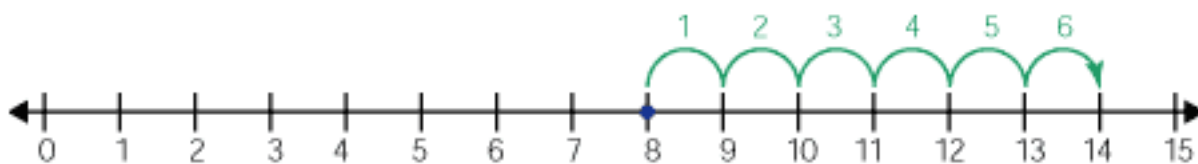
Question 9

Which two temperatures are closest to each other?

- (A) -3°C and -5°C
- (B) 3°C and -5°C
- (C) 3°C and -3°C
- (D) -3°C and 5°C

Question 10

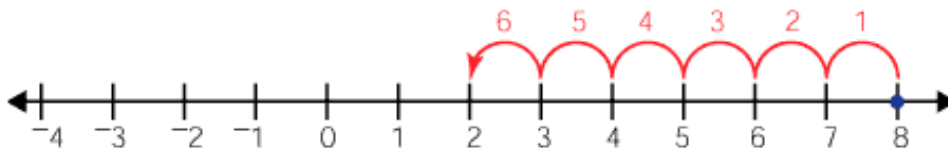
Which statement best describes what the diagram is showing?



- A $8 + 6 = 14$
- B $14 - 8 = 6$
- C $14 - 6 = 8$
- D $6 + 8 = 14$

Question 11

Which statement best describes what the diagram is showing?



- A $8 - 2 = 6$
- B $2 + 6 = 8$
- C $6 - 8 = -2$
- D $8 - 6 = 2$

Question 12

$-14 + 6 = \boxed{?}$

- A 20 B 8 C -8 D -20

Question 13

$(6 - 8) \times 3 - 5 \times 2 =$

- A -4
- B 16
- C -16
- D 4

Question 14

If $z = -8$, what is the value of $4z$?

- A -48 B 32 C -4 D -32

Question 15

In the formula $F = (a - 7)^3$, what is the value of F when $a = 2$?

- A -125 B -15 C 75 D 12