



Exercise 4F

Q1

Answer :

(b) $-4 < -3$

Since 4 is greater than 3, -4 is less than -3 .

Q2

Answer :

(c) -5

2 less than -3 means the following:

$$= -3 - 2$$

$$= -5$$

Q3

Answer :

c) -1

4 more than -5 means the following:

$$= -5 + 4$$

$$= -1$$

Q4

Answer :

(a) -9

2 less than -7 means the following:

$$= -7 - 2$$

$$= -9$$

Q5

Answer :

(b) 10

$$7 + |-3|$$

$$= 7 + (+3) \text{ (The absolute value of } -3 \text{ is } 3.)$$

$$= 7 + 3$$

$$= 10$$

Q6

Answer :

(c) -77

$$(-42) + (-35)$$

$$= -42 - 35$$

$$= -77$$

Q7

Answer :

(b) -31

$$(-37) + 6$$

$$= -37 + 6$$

$$= -31$$

Q8

Answer :

(c) 22

$$49 + (-27)$$

$$= 49 - 27$$

$$= 22$$

Q9

Answer :

$$(c) -17$$

In succession, we move from the left to the right of the number line.

Q10

Answer :

$$(b) -17$$

To find the predecessor of a number, we move from the right to the left of a number line.

Q11

Answer :

$$(a) 5$$

If we add the additive inverse of a number to the number, we get 0.

$$-5 + 5 = 0$$

Q12

Answer :

$$(b) -7$$

$$-12 - (-5)$$

$$= -12 + 5$$

$$= -7$$

Q13

Answer :

$$(b) 13.5 - (-8)$$

$$= 5 + 8$$

$$= 13$$

Q14

Answer :

$$(c) -55$$

Let x be the other integer.

$$x + 30 = -25$$

$$\Rightarrow x = -25 - 30$$

$$\Rightarrow x = -55$$

Q15

Answer :

$$(a) 25$$

Let the other integer be x

$$x + (-5) = 20$$

$$\Rightarrow x - 5 = 20$$

$$\Rightarrow x = 25$$

Q16

Answer :

(b) -21

Let the other integer be x .

$$x + 8 = -13$$

$$\Rightarrow x = -13 - 8$$

$$\Rightarrow x = -21$$

***** END *****