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) (The absolute value of −3 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 **********