



Exercise 1D

Solution 12

Answer :

(b) 0

Dividing zero by any integer gives zero as the result.

Solution 13

Answer :

(c) not defined

Dividing any integer by zero is not defined.

Solution 14

Answer :

(b) $-11 < -8$

Negative integers decrease with increasing magnitudes.

Solution 15

Answer :

(b) 9

Let the other integer be a . Then, we have:

$$-3 + a = 6$$

$$\therefore a = 6 - (-3) = 9$$

Solution 16

Answer :

(a) -10

Let the other integer be a . Then, we have:

$$6 + a = -4$$

$$\therefore a = -4 - 6 = -10$$

Hence, the other integer is -10 .

Solution 17

Answer :

(a) 22

Let the other integer be a . Then, we have:

$$-8 + a = 14$$

$$\therefore a = 14 + 8 = 22$$

Hence, the other integer is 22 .

Solution 18

Answer :

(c) 6

The additive inverse of any integer a is $-a$.

Thus, the additive inverse of -6 is 6 .

Solution 19

Answer :

(b) -150

We have $(-15) \times 8 + (-15) \times 2$

$$= (-15) \times (8 + 2) \quad [\text{Associative property}]$$

$$= -150$$

***** END *****