# Integers Exercise 1D

## Solution 01 Answer: (c) 14 Given: 6 - (-8) = 6 + 8 = 14 Solution 02 Answer: (b) -3Given: -9 - (-6) = -9 + 6, be x = -3 Solution 03 Answer: (d) 5 We can see that -3 + 5 = 2Hence, 2 exceeds -3 by 5. Solution 04 Answer: Let the number to be subtracted be x To find the number, we have: -1 - x = -6x = -1 + 6 = 5Solution 05

## Answer: (c) 4 We can see that (-2) - (-6) = (-2) + 6 = 4Hence, -6 is four (4) less than -2. Solution 06 Answer: (b) -8Subtracting 4 from -4, we get: (-4) - 4 = -8Solution 07 Answer: (b) 2 Required number = (-3) - (-5) = 5 - 3 = 2Solution 08 Answer: (c) 6(-3) - x = -9x = (-3) + 9 = 6Hence, 6 must be subtracted from -3 to get -9. Solution 09 Answer: (c) -11 Subtracting 6 from -5, we get: (-5) - 6 = -11Solution 10 Answer: (c) 5 Subtracting -13 from -8, we ge (-8) - (-13)= -8 + 13 Solution 11 Answer: (a) 4 $(-36) \div (-9) = 4$ Here, the negative signs in both the numerator and denominator got cancelled with each other. 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
a = 6 - (-3) = 9
Solution 16
Answer:
(a) -10
Let the other integer be a. Then, we have:
6 + a = -4
.: 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
∴ a = 14 + 8 = 22
                             e property]
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) [Associative property]
= -150
Solution 20
Answer:
(b) -24
We have (-12) × 6 - (-12) × 4
                   [Associative property]
= (-12) \times (6 - 4)
= -24
Solution 21
Answer:
(b) 810
(-27) \times (-16) + (-27) \times (-14)
= (-27) \times (-16 + (-14)) [Associative property]
=(-27) \times (-30)
= 810
Solution 22
Answer:
(a) -270
30 \times (-23) + 30 \times 14
= 30 \times (-23 + 14) [Associative property]
= 30 \times (-9)
= -270
Solution 23
```

#### Answer:

(c) 152

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

$$-59 + a = 93$$

Solution 24

### Answer:

(b) 90

$$x \div \left(-18\right) = -5$$

$$\Rightarrow \frac{x}{-18} = -5$$

$$\therefore x = -18 \times -5 = 90$$

