

#### Exercise 1A

: a = -2

# Solution 15:

### Answer:

- (i) Consider the integers 8 and -8. Then, we have:
- 8 + (-8) = 0
- (ii) Consider the integers 2 and (-9). Then, we have:
- 2 + (-9) = -7, which is a negative integer.
- (iii) Consider the integers -4 and -5. Then, we have:
- (-4) + (-5) = -9, which is smaller than -4 and -5.
- (iv) Consider the integers 2 and 6. Then, we have:
- 2 + 6 = 8, which is greater than both 2 and 6.
- (v) Consider the integers 7 and -4. Then, we have:
- 7 + (-4) = 3, which is smaller than 7 only.

# Solution 16:

### Answer:

- (i) F (false). -3, -90 and -100 are also integers. We cannot determine the smallest integer, since they are infinite
- (ii) F (false). -10 is less than -7.
- (iii) T (true). All negative integers are less than zero.
- (iv) T (true).
- (v) F (false). Example: -9 + 2 = -7

\*\*\*\*\*\*\*\*\*\* END \*\*\*\*\*\*\*\*