

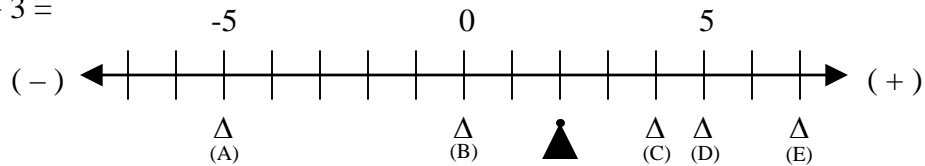
# Negative Numbers

Questions 1 – 15

The following questions use a number line and a counter, as shown below. For each question, select the letter of the correct position for the counter after the indicated operations.

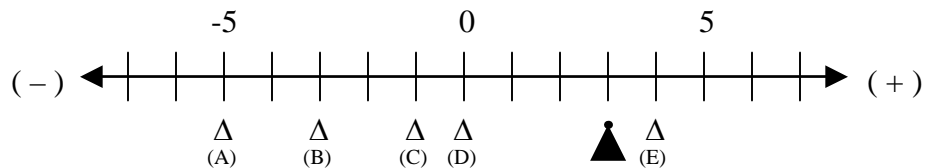
Example:

$2 + 3 =$

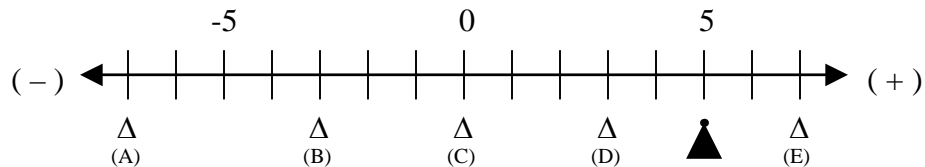


The correct choice is (D). The original position of the counter is 2. If you move it three units in the positive direction, the final result is 5.

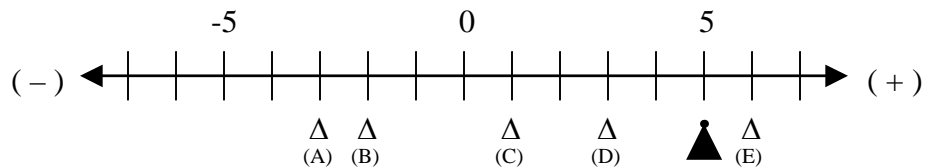
1.  $3 + 1 =$



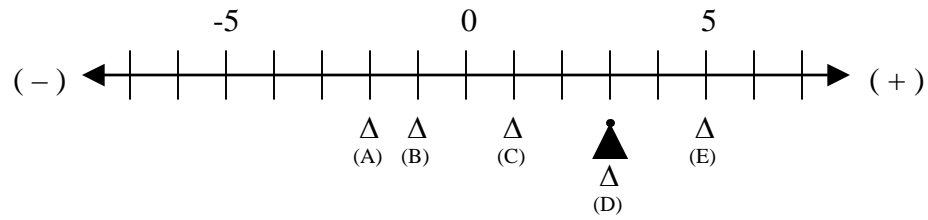
2.  $5 - 2 =$



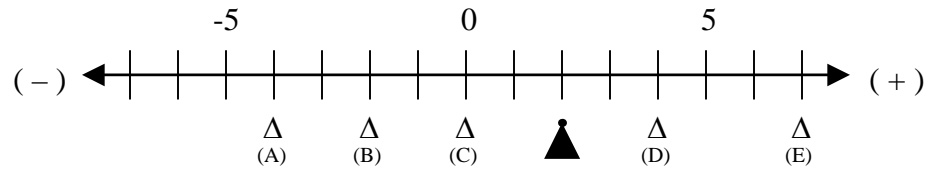
3.  $5 + (-2) =$



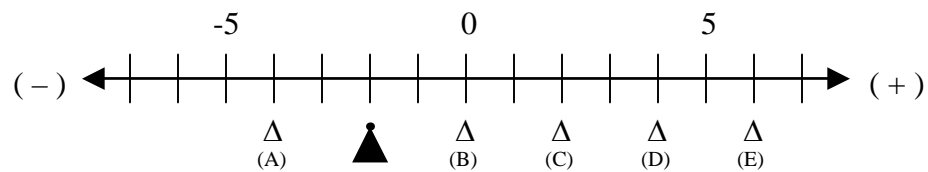
4.  $3 + 2 + (-7) =$



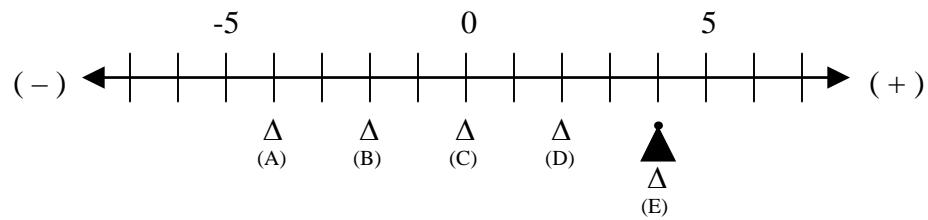
5.  $2 + (-4) =$



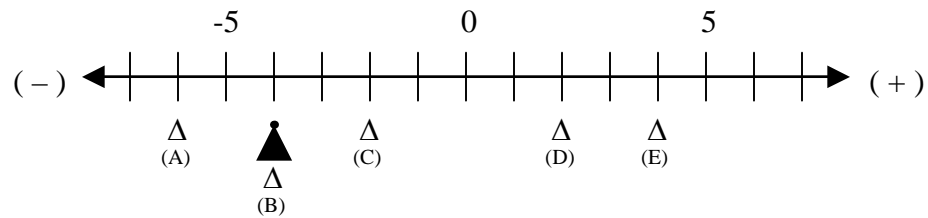
6.  $-2 + -2 =$



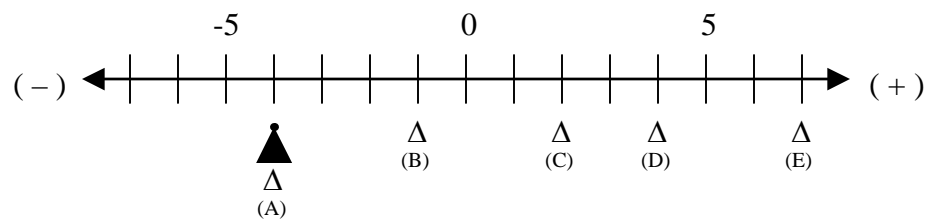
7.  $4 + -2 + -2 =$



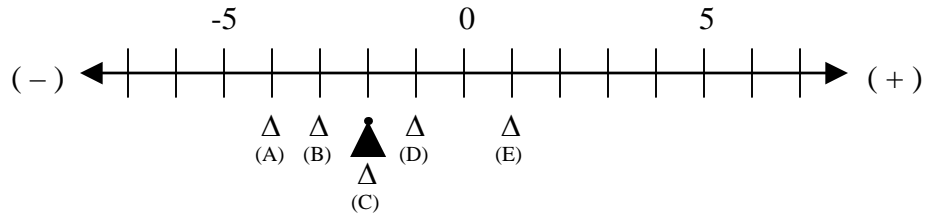
8.  $-4 + -1 + -1 =$



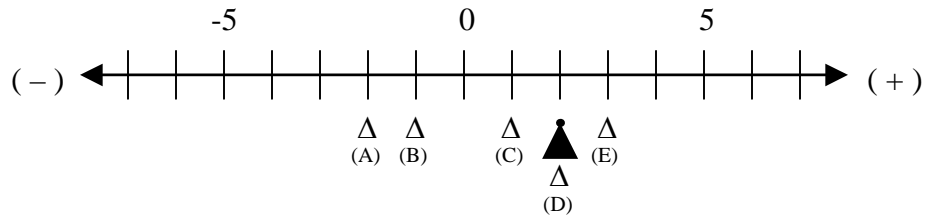
9.  $-4 + 8 =$



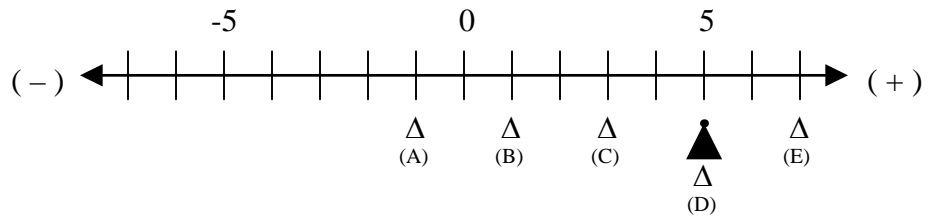
10.  $-2 + 2 + -1 =$



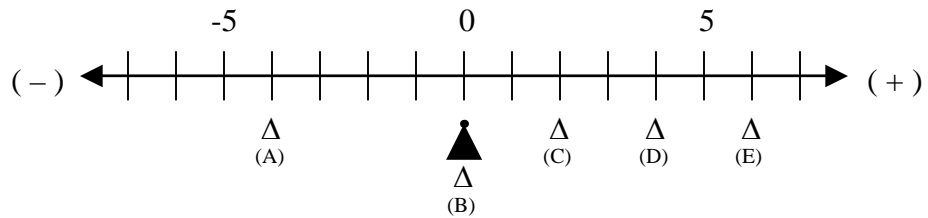
11.  $2 - (-1) =$



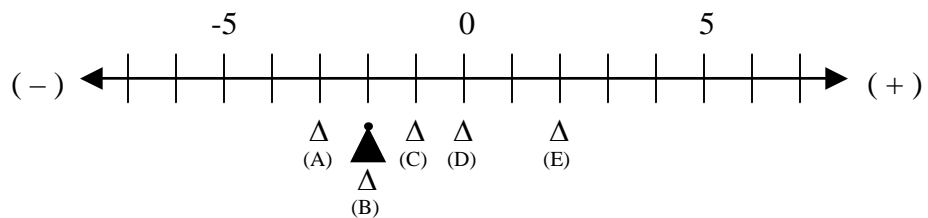
12.  $5 - (-2) =$



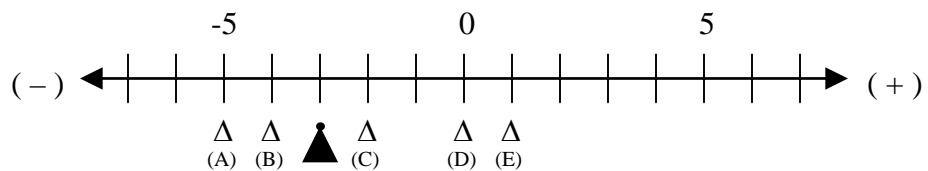
13.  $0 - (-4) =$



14.  $-2 - (-1) =$



15.  $-3 - (-1) - (-2) =$



16.  $5 + 8 + (-2) + (-1) =$   
(A) 3            (B) 7            (C) 10            (D) 13            (E) 23
17.  $12 - 7 + 6 + -1 =$   
(A) 2            (B) 6            (C) 10            (D) 14            (E) 18
18.  $3 + -3 =$   
(A) -6            (B) -3            (C) 0            (D) 3            (E) 6
19.  $0 + -12 =$   
(A) -12            (B) -6            (C) -1            (D) 0            (E) 12
20.  $-3 + 1 =$   
(A) -4            (B) -2            (C) 2            (D) 4            (E) 8
21.  $-2 + -6 =$   
(A) -8            (B) -4            (C) -2            (D) 2            (E) 4
22.  $-2 + -3 + -4 =$   
(A) -24            (B) -9            (C) -6            (D) 0            (E) 6
23.  $100 + (-99) =$   
(A) -199            (B) -99            (C) -1            (D) 1            (E) 99
24.  $14 - (-2) =$   
(A) 16            (B) 12            (C) 4            (D) -2            (E) -14
25.  $2 - (-5) =$   
(A) 7            (B) 3            (C) -2            (D) -3            (E) -7
26.  $0 - (-4) =$   
(A) -8            (B) -4            (C) 0            (D) 4            (E) 8
27.  $-2 - (-3) =$   
(A) -6            (B) -5            (C) -1            (D) 1            (E) 3
28.  $-5 - (-1) - 1 =$   
(A) -7            (B) -5            (C) -3            (D) -1            (E) 2
29.  $(5 - 1) + (1 - 5) =$   
(A) -5            (B) -3            (C) 0            (D) 3            (E) 5
30.  $[2 - (-6)] - [-2 + (-1)] =$   
(A) -2            (B) -1            (C) 1            (D) 5            (E) 11

31.  $1 \times -2 =$   
(A)  $-2$  (B)  $-1$  (C)  $-\frac{1}{2}$  (D)  $1$  (E)  $2$
32.  $-2 \times 1 =$   
(A)  $2$  (B)  $1$  (C)  $\frac{1}{2}$  (D)  $-1$  (E)  $-2$
33.  $-8 \times 6 =$   
(A)  $-48$  (B)  $-2$  (C)  $2$  (D)  $14$  (E)  $48$
34.  $-2 \times -3 =$   
(A)  $-6$  (B)  $-5$  (C)  $-1$  (D)  $6$  (E)  $12$
35.  $-10 \times -10 =$   
(A)  $-100$  (B)  $-20$  (C)  $0$  (D)  $20$  (E)  $100$
36.  $-2 \times -1 \times -1 =$   
(A)  $-3$  (B)  $-2$  (C)  $1$  (D)  $2$  (E)  $4$
37.  $-10 \times -10 \times -10 =$   
(A)  $-1,000$  (B)  $-30$  (C)  $-1$  (D)  $1$  (E)  $1,000$
38.  $-2 \times -2 \times -2 \times -2 =$   
(A)  $-32$  (B)  $-8$  (C)  $4$  (D)  $16$  (E)  $32$
39.  $-1 \times -1 \times -1 \times -1 \times -1 \times -1 \times -1 \times -1 \times -1 \times -1 =$   
(A)  $-10$  (B)  $-1$  (C)  $0$  (D)  $1$  (E)  $10$
40.  $4 \div -2 =$   
(A)  $-8$  (B)  $-2$  (C)  $-\frac{1}{2}$  (D)  $2$  (E)  $8$
41.  $16 \div -1 =$   
(A)  $-16$  (B)  $-1$  (C)  $1$  (D)  $8$  (E)  $16$
42.  $-12 \div 4 =$   
(A)  $-4$  (B)  $-3$  (C)  $-2$  (D)  $3$  (E)  $4$
43.  $-12 \div -12 =$   
(A)  $-144$  (B)  $-1$  (C)  $1$  (D)  $24$  (E)  $144$
44.  $[7 - (-6)] + 3(2 - 4) =$   
(A)  $-2$  (B)  $0$  (C)  $7$  (D)  $12$  (E)  $23$

45.  $(2 \times -3)(1 \times -4)(2 \times -1) =$   
 (A) -48 (B) -16 (C) 2 (D) 28 (E) 56
46.  $(6 \times -2) \div (3 \times -4) =$   
 (A) -12 (B) -1 (C) 1 (D) 3 (E) 24
47.  $(4 - (-3) + 7 - (-1))(-3 - (-2)) =$   
 (A) -25 (B) -15 (C) -7 (D) -1 (E) 8
48.  $[(2 \times -1) + (4 \div -2)] \times [(-6 + 6) - (2 - 3)] =$   
 (A) 5 (B) 2 (C) -2 (D) -4 (E) -23
49.  $(2 - 3)(3 - 2)(4 - 3)(3 - 4)(5 - 4)(4 - 5) =$   
 (A) -625 (B) -1 (C) 1 (D) 50 (E) 625
50.  $[2 \times (3 - 4)] + [(125 \div -25) \times (1 \times -2)] =$   
 (A) -12 (B) -8 (C) 2 (D) 8 (E) 125
51.  $-\frac{1}{2} \times 2 \times -\frac{1}{2} \times 2 \times -\frac{1}{2} \times 2 =$   
 (A) -16 (B) -8 (C) -1 (D) 1 (E) 2
52.  $[(2 \times 3) \div (-6 \times 1)] \times \left[ (21 \div 7) \times \frac{1}{3} \right] =$   
 (A) -5 (B) -1 (C) 1 (D) 12 (E) 36
53.  $(-5 \times -2) - (-2 \times -5) =$   
 (A) 0 (B) 2 (C) 10 (D) 12 (E) 18
54.  $6 \div -\frac{1}{3} =$   
 (A) -18 (B)  $-\frac{1}{2}$  (C) 2 (D) 3 (E) 18
55.  $(-3 - (-3)) - (-2 - (-2)) - (-1 - (-1)) =$   
 (A) -12 (B) -6 (C) 0 (D) 6 (E) 12
56. If  $n$  is any negative number, which of the following must also be negative?  
 I.  $n + n$   
 II.  $n \times n$   
 III.  $n - n$   
 (A) I only (B) II only (C) I and III only (D) II and III only (E) I, II, and III

57. If  $n$  is any negative number, which of the following must also be negative?
- I.  $n \times -n$
  - II.  $-n \times -n$
  - III.  $-n + n$
- (A) I only    (B) II only    (C) III only    (D) II and III only    (E) I, II, and III
58. If  $n$  is any positive number, which of the following must be negative?
- I.  $n \times -n$
  - II.  $n \div -n$
  - III.  $n - (-n)$
- (A) I only    (B) II only    (C) I and II only    (D) I and III only    (E) I, II, and III
59. If  $n$  is any positive number, which of the following must be positive?
- I.  $-n - (-n)$
  - II.  $-n \times -n$
  - III.  $n \div (-n \times -n)$
- (A) I only    (B) II only    (C) III only    (D) I and III only    (E) II and III only
60. Given any number such that  $n \neq 0$ , which of the following must be equal to 0?
- I.  $-n \times -n \times -n \times -n \times -n \times -n$
  - II.  $[(n - n) - n] - [(n - n) - n]$
  - III.  $n \div [(n \div n) \div n]$
- (A) I only    (B) II only    (C) I and II only    (D) I and III only    (E) I, II, and III