

SUBSTRAND 2.2 — LINEAR EQUATIONS



SECTION A — MULTIPLE CHOICE (20 marks)

1. Solve: x + 7 = 15. x = ?
   A. 22 B. 8 C. 7 D. −8
2. Solve: 3x = 21. x = ?
   A. 7 B. 14 C. 3 D. 18
3. Solve: x − 5 = 12. x = ?
   A. 17 B. 7 C. −7 D. 5
4. Solve: 2x + 3 = 11. x = ?
   A. 4 B. 3 C. 2 D. 5
5. If (x + 4) = 10, then x = ?
   A. 6 B. 14 C. −6 D. 7
6. Solve: 7(2x − 4) = 6(x − 2).
   A. x = 2 B. x = 0 C. x = 4 D. x = −2
7. Solve: (3(5 + 2r) − 5) ÷ 6 = 4. First simplify inner then solve. r = ?
   A. 3 B. 2 C. 1 D. 0
8. Which equation represents the beam-balance diagram: left pan has weight 3x and a 5 kg weight; right pan has 20 kg?
   A. 3x + 5 = 20
   B. 3x = 20 + 5
   C. x = 15
   D. x = 5
9. The area of a rectangle = 48 and width = 6, length = x. Equation: 6x = 48. Solve x = ?
   A. 8 B. 6 C. 12 D. 24
10. Solve: (x ÷ 4) + 5 = 9. x = ?
    A. 16 B. 14 C. 12 D. 8
11. If 2x − 3 = 5, x = ?
    A. 4 B. 8 C. 1 D. −1
12. Solve: 4(x + 2) = 24. x = ?
    A. 4 B. 3 C. 6 D. 2
13. Solve: 5x − 10 = 0. x = ?
    A. 2 B. −2 C. 0 D. 10
14. Which of the following is the correct solution to 9 − x = 4?
    A. x = 5 B. x = −5 C. x = 13 D. x = 4
15. Solve: 3(x − 2) = 9. x = ?
    A. 5 B. 6 C. 3 D. 2
16. Solve: (2x + 3) ÷ 5 = 4. x = ?
    A. 8.5 B. 8 C. 7 D. 9

WORKING SPACE



