

## CHAPTER 2 REVIEW QUESTIONS

### MULTIPLE CHOICE

1. XYZ construction hired you as a junior estimator. On the first day of work, you are asked to do some takeoff for self-performed work. What does “self-performed” mean?
  - A) The work that will be done by subcontractors, not by XYZ construction
  - B) The work that will be done by XYZ construction, not by subcontractors
  - C) The work that will be done by the office workers, not the field crew
  - D) The work that will be done automatically, without any human effort
2. In an “as-bid” estimate prepared by someone else, you find one item “Elevator” was showing “l/s” for its measurement unit with a \$150,000 unit price. What does “l/s” stand for?
  - A) Long and Short
  - B) Lump Sum
  - C) Low Side
  - D) Linear Square
3. What is 9’ 1-1/2” in decimal feet?
  - A) 9.15’
  - B) 91.5’
  - C) 9.125’
  - D) 109.5’
4. A carpet subcontractor is trying to figure out the work for a rectangular room 24 feet long, 12 feet wide, and 8 feet high. What is the interior floor area to be covered?
  - A) 288 square yards
  - B) 32 square yards
  - C) 21 square yards
  - D) 64 square yards

5. What is 12 feet in decimal meters?
- A) 144 meters
  - B) 1 meter
  - C) 3.66 meters
  - D) 4.00 meters
6. You are estimating a movie theater renovation project. A few existing steel columns were to be relocated. What is the measurement unit for such work?
- A) Each
  - B) Cubic Yard
  - C) Ton
  - D) Square Foot
7. What is the primary measurement unit for earthwork operations such as excavation and backfill?
- A) Each
  - B) Linear Foot
  - C) Square Foot
  - D) Cubic Yard
8. You just finished calculating earthwork quantity for a building site using the grid method. If you had further divided the grids into smaller sizes before your calculation, how would that have affected the calculation accuracy?
- A) It would have been more accurate
  - B) It would have been less accurate
  - C) There would be no changes at all
  - D) Sometimes it would be more accurate, sometimes it would be less accurate
9. What is the primary measurement unit for underground utility pipes?
- A) Each
  - B) Linear Foot
  - C) Square Foot
  - D) Cubic Yard

10. If an 80-foot  $\times$  27-foot size lot is to be prepared with 6 inches of gravel base, not considering compaction, what is the approximate net volume for the gravel needed?
- A) 40 cubic yards
  - B) 120 cubic yards
  - C) 2,160 cubic yards
  - D) 12,960 cubic yards
11. What would be the net concrete required for a continuous strip footing 100 feet long, 30 inches wide, and 12 inches high?
- A) 36,000 cubic yards
  - B) 1333.3 cubic yards
  - C) 27.8 cubic yards
  - D) 9.3 cubic yards
12. What would be the total formwork required for 10 pad footings with dimensions of 3 feet long, 4 feet wide, and 24 inches thick?
- A) 2,880 square feet
  - B) 320 square feet
  - C) 280 square feet
  - D) 28 square feet
13. What would be the total net concrete required for four rectangular columns with the dimensions of 12 inches  $\times$  16 inches  $\times$  12 feet high?
- A) 9,216 cubic yards
  - B) 1,024 cubic yards
  - C) 314.3 cubic yards
  - D) 2.4 cubic yards
14. A brick wall 200 feet long  $\times$  8 feet high is to be built with mostly modular bricks. How many bricks are needed?
- A) 1,600 each
  - B) 1,800 each
  - C) 11,200 each
  - D) 123,200 each

15. For a small site screen wall (8-inch masonry block with stucco), you calculate there are about 6,530 blocks. The architect now wants to change the wall to be 12-inch masonry. Assuming everything else stays the same, how many 12-inch blocks do you need?
- A) 6,530 each
  - B) 4,354 each
  - C) 9,795 each
  - D) 45,710 each
16. What would be the total board feet of three 14-foot planks of  $2 \times 4$  lumber?
- A) 14 board feet
  - B) 28 board feet
  - C) 42 board feet
  - D) 336 board feet
17. If 2,500 board feet of 20-foot  $2 \times 6$  lumber is ordered, how many pieces will be delivered?
- A) 45 each
  - B) 90 each
  - C) 125 each
  - D) 150 each
18. How many  $4 \times 8$  plywood sheets are required to cover a floor area of  $15 \times 10$  meters?
- A) 5 each
  - B) 32 each
  - C) 51 each
  - D) 150 each
19. A small shed has the slope of 4:12. It is measured as 25 feet  $\times$  8 feet on roof plan. What is the actual roof area if you consider the slope?
- A) 200 square feet
  - B) 600 square feet
  - C) 66 square feet
  - D) 211 square feet
20. What is a handicap lift considered to be?
- A) Specialties
  - B) Furnishings
  - C) Special construction
  - D) Conveying equipment