DEWALT Construction Estimating Complete Handbook Excel Estimating Included 2nd edition Ding Solutions Manual

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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

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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

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10. If an 80-foot × 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 × 16 inches × 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 × 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

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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 × 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 × 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 × 8 plywood sheets are required to cover a floor area of 15 × 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 × 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

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