Section One

Objective

Identify whole numbers and demonstrate how to work with them mathematically.

a. Identify different whole numbers and their place values.
b. Demonstrate the ability to add and subtract whole numbers.
c. Demonstrate the ability to multiply and divide whole numbers.

Section 1.2.0

Sub-Objective 1b

1. 11 + 13 = _____.
   a. 13
   b. 24
   c. 1,113
   d. 1,979

2. 61 + 16 = _____.
   a. 45
   b. 77
   c. 390
   d. 6116

3. 78 + 0 = _____.
   a. 39
   b. 77
   c. 78
   d. 780

4. Tony had 14 nails. Terry gave him another 12 nails. Later that day, Bill gave him 6 more. How many nails does Tony have?
   a. 8
   b. 14
   c. 20
   d. 32

5. What would you have if you combined 99 with 341?
   a. 350
   b. 400
   c. 440
   d. 1,330

6. A 30-foot pipe has another 12-foot pipe welded onto it. How long is the new pipe?
   a. 42 feet
   b. 43 feet
   c. 54 feet
   d. 60 feet

7. A shipment of lumber weighs 369 pounds. A second shipment weighs 163 pounds. How much does the combination of the two shipments weigh?
   a. 370 pounds
   b. 532 pounds
   c. 533 pounds
   d. 60,147 pounds

8. 1,111 + 222 = _____.

9. A spool of wire weighing 222 pounds has 33 pounds of wire added to it. What would be the total weight?
   a. 65
   b. 255
   c. 444
   d. 552

10. Carlos is standing on a scaffolding platform. With his tool belt and hard hat on, he weighs 229 pounds. Ritchie joins Carlos on the platform. Including his tool belt and hard hat, Ritchie weighs 232 pounds. If Ace, who weighs 260 pounds with his equipment, were to join them on the platform, what would their total weight be?
    a. 461 pounds
    b. 719 pounds
    c. 720 pounds
    d. 721 pounds

11. 2,004 − 192 = _____.
    a. 84
    b. 102
    c. 1,812
    d. 2,196

12. 4,628 − 29 = _____.
    a. 1,728
    b. 4,338
    c. 4,599
    d. 4,657

13. The top of a window frame's head is 50 inches high. The bottom of the window's sill is 32 inches high. What is the difference in height from the top of the head to the bottom of the sill?

a. 18 inches
b. 22 inches
c. 27 inches
d. 110 inches

14. 260 − 0 = _____.

15. 807 − 87 = _____.

16. A length of seven inches is sawed off of a 30-inch plank. How long would the plank become?

a. 4 inches
b. 14 inches
c. 23 inches
d. 25 inches

17. 1,250 − 93 = _____.

a. 357
b. 1,153
c. 1,157
d. 1,343

18. A job site has 256 feet of cable. If 77 feet is used, how much remains?

a. 24
b. 140
c. 170
d. 179

19. Patricia needs 78 welders for a project. She currently has 49. How many more does she need?

a. 29
b. 30
c. 39
d. 127

20. A scaffolding platform is rated to safely support 940 pounds. Carlos weighs 229 pounds, including all of his equipment. Ritchie weighs 232 pounds. Joan weighs 194 pounds with her equipment. If Carlos, Ritchie, and Joan were on the platform, how much *more* weight could the platform safely support?

a. None; the weight of Carlos, Ritchie, and Joan already exceeds the weight limit.
b. 285 pounds
c. 479 pounds
d. 1,401 pounds

Section 1.3.0

Sub-Objective 1c

21. 7 × 77 = _____.

a. 70
b. 84
c. 497
d. 539

22. 704 × 38 = _____.

a. 742
b. 26,752
c. 70,438
d. 181,704

23. 38 × 704 = _____.

a. 26,752
b. 38,704
c. 100,704
d. 181,704

24. A hammer specifically needed for the job site costs $42. How much would 12 hammers cost at that price?

a. $12
b. $54
c. $420
d. $504

25. A truck weighs approximately 5,300 pounds. What would 15 trucks of that same size and style approximately weigh?

a. 5,315 pounds
b. 58,300 pounds
c. 79,300 pounds
d. 79,500 pounds

26. A company has seven job sites. At each of these sites, there are exactly eight scissor lifts. How many scissor lifts are at all of the job sites combined?

a. 15
b. 56
c. 78
d. 87

27. A job site has total of 342 steel pipes that are each 50 feet long. How many total feet of steel pipe does it have?

a. 292
b. 17,100
c. 17,500
d. 34,250

28. 1,001 × 27,141 = _____.

a. 26,140
b. 2,716,814
c. 27,113,859
d. 27,168,141

29. One side of a square room measures 15 feet in length. If you needed cable to travel the length along all four walls, what minimum length would you need?

a. 15
b. 45
c. 60
d. 154

30. 11,287 × 1,121 = _____.

a. 12,408
b. 1,243,985
c. 12,539,857
d. 12,652,727

31. 634 ÷ 2 = _____.

a. 317
b. 334
c. 636
d. 1,268

32. 1,250 ÷ 5 = _____.

a. 125
b. 200
c. 250
d. 1,255

33. 851 ÷ 23 = _____.

a. 37
b. 41
c. 207
d. 818

34. 324 ÷ 18 = _____.

a. 18
b. 81
c. 88
d. 113

35. 21,114 ÷ 621 = _____.

a. 33
b. 34
c. 206
d. 20,493

36. If it will take 21 cans of paint to complete three rooms of equal size, how many cans are needed for each room?

a. 3
b. 7
c. 18
d. 21

37. Luis is an ironworker. Luis's paycheck totals $2,480 after taxes. The paycheck was for 80 hours of work. After taxes, how many dollars did Luis make per hour?

a. $24
b. $25
c. $31
d. $80

38. If 4,380 concrete screws were used over 60 days of work, what is the average amount of screws used per day?

a. 60
b. 73
c. 730
d. 4,320

39. One electrical job requires 195 feet of wire, and a second job requires 225 feet. If the wire comes in 15-foot coils, how many coils will you need?

a. 28
b. 30
c. 150
d. 420

40. Gustavo has 930 plumbers, and 31 projects starting at the same time. If he equally distributed all of the plumbers across all of the project sites, how many plumbers would be at each site?

a. 27
b. 30
c. 31
d. 899