Section I — +/– Feet & Inches

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1. 11′ 6″ + 18′ 2″ =

2. 14′ 5″ + 8′ 3″ =

3. 10′ 9″ – 10′ 6″ =

4. 10′ 11″ – 2′ 5″ =

5. 11′ 8″ – 2′ 9″ =

6. 11′ 4″ – 8′ 2″ =

7. 17′ 2″ – 6′ 9″ =

8. 17′ 6″ + 14′ 7″ =

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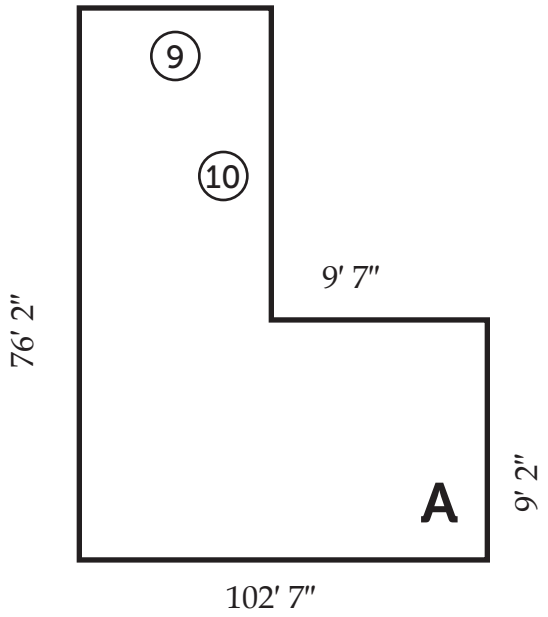
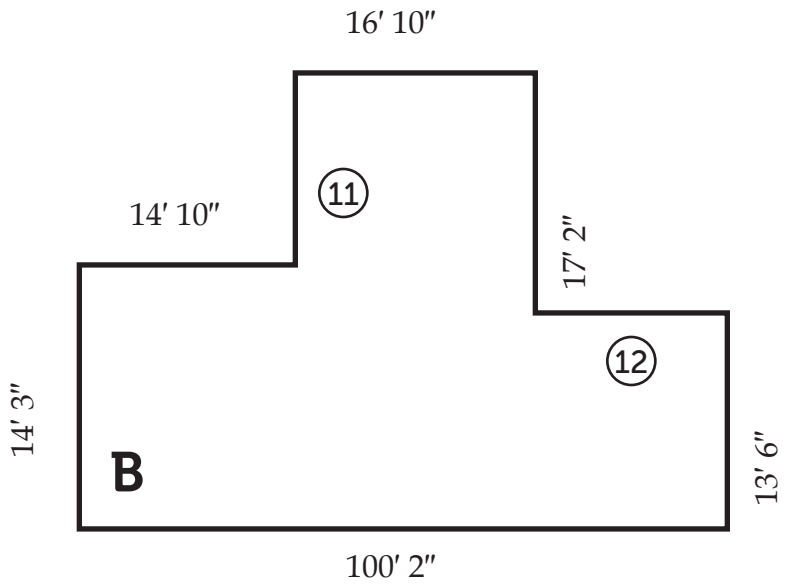
Section II — Find the Missing Side & Perimeter





Side	Length	Side	Length	Shape	Perimeter
9		11		A	13
10		12		B	14

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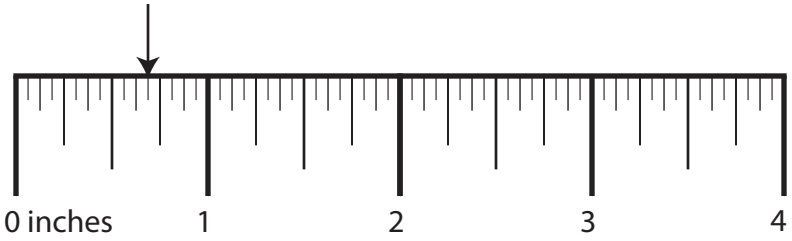
Section III — Ruler Measurements

⑨



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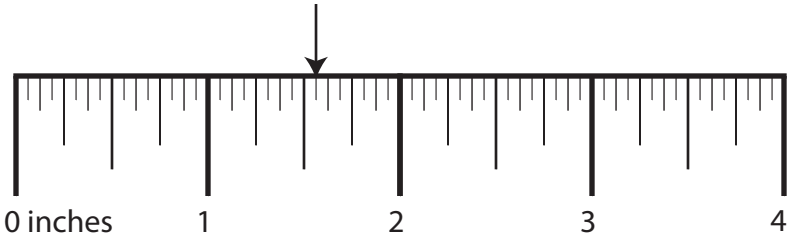

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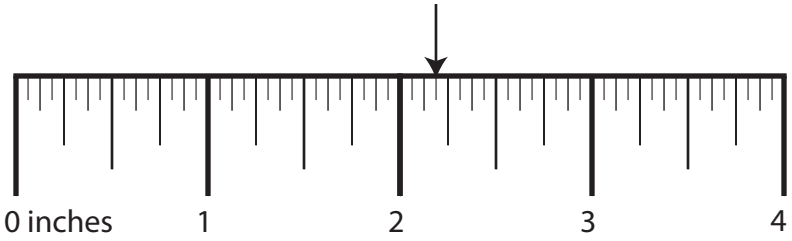

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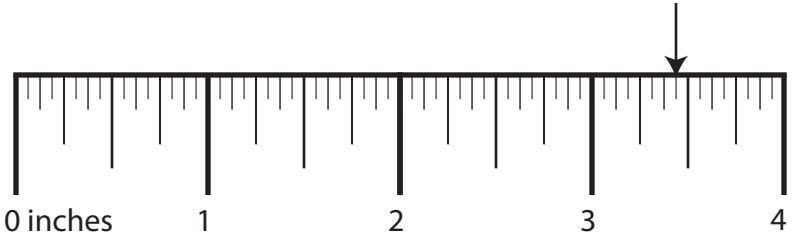

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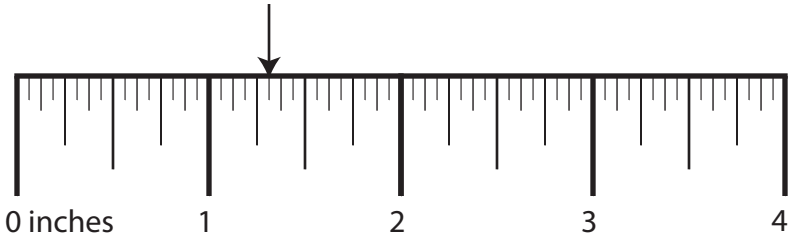

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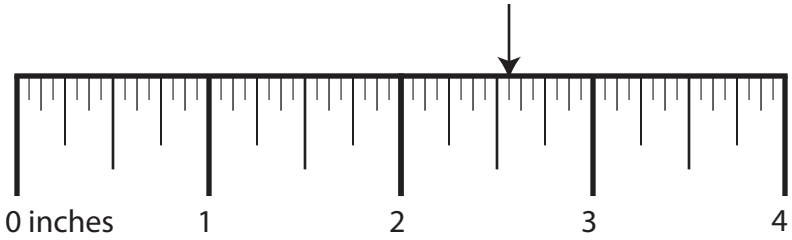

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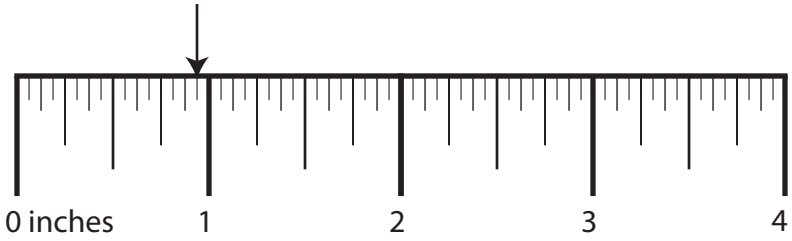

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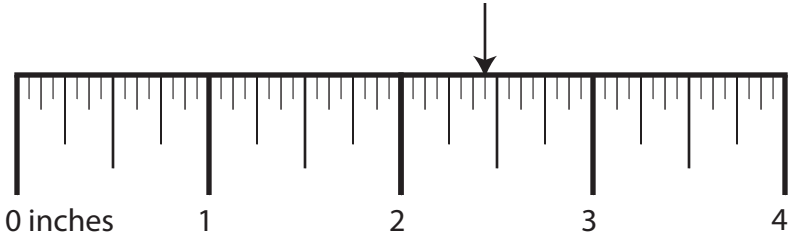

Section IV — More/Less Than

392

23. What is ¼ more than 2 ¼?

24. What is ½ more than 5 ⅛?

25. What is 3/16 less than 4 1/16?

26. What is 3/16 less than 5 ½?

27. What is ½ more than 1 ⅜?

28. What is ½ less than 3 ½?

29. What is ¼ more than 2 3/16?

30. What is ½ more than 4 ½?

Section V — Nail Penetration & Screw Hole Bits

392

How far will a ...

31. 60 penny nail penetrate a 4″ dry plank?

32. 9 penny nail penetrate a 1 ¼″ dry timber?

33. 14 common gauge nail penetrate a 1 ½″ green board?

34. 6 common gauge nail penetrate a 4 ½″ dry pole?

What drill bit do you need to drill a ...
[Remember, # or letter only, except 27/64, 14/32, 29/64]

35. countersink hole for a 20 gauge screw?

36. clearance hole for a 4 gauge screw?

37. countersink hole for a 3 gauge screw?

38. pilot hole for a 20 gauge screw?

Section VI — Math Calculations

392

39. Propyl Alcohol cycle, 833 (lb/hr) flowrate, outside is 79°F, inside 65°F?

40. How many mmBTUs are generated by burning 255 pounds of Aspen?

41. Hexane cycle, 570 (lb/hr) flowrate, outside is 44°F, inside 74°F?

42. How many pounds of CO2 are released by burning 306 pounds of Beech?

43. How many mmBTUs are generated by burning 345 pounds of Aspen?

44. How many pounds of CO2 are released by burning heating oil (No. 2) for 10 weeks in a EVG 399?

45. Shape M, Scale = 15, brick job.

46. Shape O, Scale = 24, baseboard job.

Section VI — Math Calculations

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47. Shape B, Scale = 36, pipe job.

48. How many pounds of CO2 are released by burning residual fuel oil (No. 6) for 3 hours in a CGa-5?

49. Shape B, Scale = 35, caulking job.

50. How many mmBTUs are generated by burning 324 pounds of White Oak?

51. Ethylene glycol cycle, 1289 (lb/hr) flowrate, outside is 74°F, inside 64°F?

52. n-Butane, 32oF cycle, 1030 (lb/hr) flowrate, outside is 44°F, inside 83°F?

53. How many mmBTUs are generated by running a EVG 110 for 6 weeks?

54. Shape N, Scale = 15, panel job.

Section VII — Blueprint Calculations

392

55. Shape A, Scale = 48, pipe job.

56. Shape A, Scale = 50, paint job.

57. Shape D, Scale = 8, caulking job.

58. Shape I, Scale = 50, carpet job.

59. Shape H, Scale = 36, wire job.

60. Shape R, Scale = 8, tile job.

61. Shape R, Scale = 24, pipe job.

62. Shape O, Scale = 24, tile job.