

410

1. What is 32% of 587.5?
2. 23 is 36% of what number?
3. What is 72% of 222.5?
4. What is 72% of 162.5?
5. 67 is what percent of 268?
6. 43 is 64% of what number?
7. 17 is what percent of 68?
8. 91 is what percent of 568.75?



9. $4.9 \text{ mi} = \underline{\hspace{2cm}} \text{ ft}$

13. $4.7 \text{ ozm} = \underline{\hspace{2cm}} \text{ lbm}$

10. $1 \text{ gal} = \underline{\hspace{2cm}} \text{ pt}$

14. $2.7 \text{ lbm} = \underline{\hspace{2cm}} \text{ ozm}$

11. $3 \text{ yd} = \underline{\hspace{2cm}} \text{ in}$

15. $0.5 \text{ yd} = \underline{\hspace{2cm}} \text{ in}$

12. $0.5 \text{ lbm} = \underline{\hspace{2cm}} \text{ ozm}$

16. $1 \text{ qt} = \underline{\hspace{2cm}} \text{ oz}$

17. $0 \text{ c}\Omega = \underline{\hspace{2cm}} \text{ c}\Omega$

21. $2.984 \text{ Dm} = \underline{\hspace{2cm}} \text{ hm}$

18. $0.000632 \text{ kV} = \underline{\hspace{2cm}} \text{ DV}$

22. $160 \text{ g} = \underline{\hspace{2cm}} \text{ cg}$

19. $1.2 \text{ dW} = \underline{\hspace{2cm}} \text{ mW}$

23. $33 \text{ hW} = \underline{\hspace{2cm}} \text{ hW}$

20. $0 \text{ DL} = \underline{\hspace{2cm}} \text{ DL}$

24. $2.644 \text{ dL} = \underline{\hspace{2cm}} \text{ kL}$

Math Calculations

- 25.** Room B's Floor, made of Silicon oil, if inside is 56°F and outside is 95°F?
- 26.** Room A's Ceiling, made of Rubber, cellular, if inside is 74°F and outside is 19°F?
- 27.** How many mmBTUs are generated by burning 193 pounds of Red Maple?
- 28.** Ammonia, 1760F cycle, 582 (lb/hr) flowrate, outside is 65°F, inside 55°F?
- 29.** Propylene cycle, 1420 (lb/hr) flowrate, outside is 83°F, inside 56°F?
- 30.** Carbon Tetrachloride cycle, 686 (lb/hr) flowrate, outside is 88°F, inside 71°F?
- 31.** Calcium Chloride cycle, 901 (lb/hr) flowrate, outside is 89°F, inside 44°F?
- 32.** How many mmBTUs are generated by burning 339 pounds of Aspen?

Blueprints

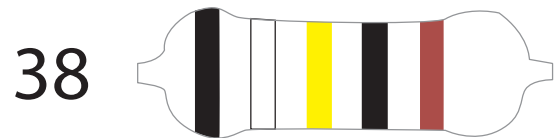
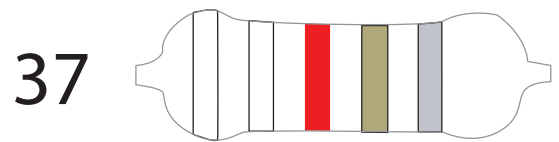
Resistor Codes

33. Shape C, Scale = 24, tile job.

34. Shape H, Scale = 8, carpet job.

35. Shape K, Scale = 32, paint job.

36. Shape N, Scale = 32, tile job.



41 total

$$42. \quad 17' 2'' + 14' 9'' + 8' 7'' + 12' 3'' + 18' 5'' =$$

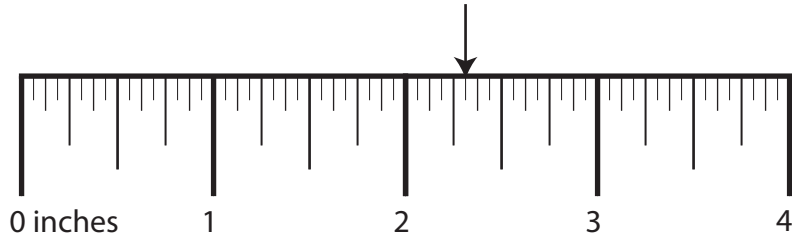
$$43. \quad 15' 8'' + 15' 5'' + 14' 9'' + 9' 8'' + 18' 11'' =$$

$$44. \quad 18' 11'' + 13' 1'' + 11' 4'' + 12' 8'' + 12' 9'' =$$

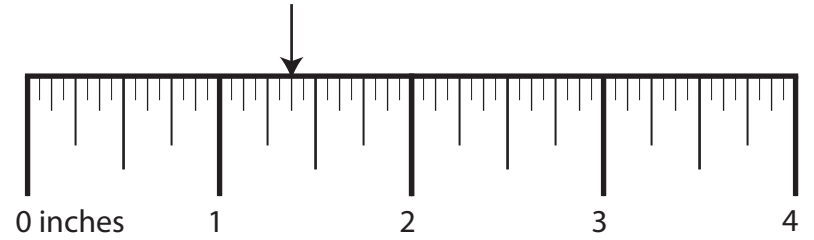
$$45. \quad 12' 10'' + 13' 2'' + 17' 7'' + 13' 4'' + 9' 10'' =$$

$$46. \quad 12' 1'' + 14' 10'' + 16' 8'' + 14' 2'' + 18' 6'' =$$

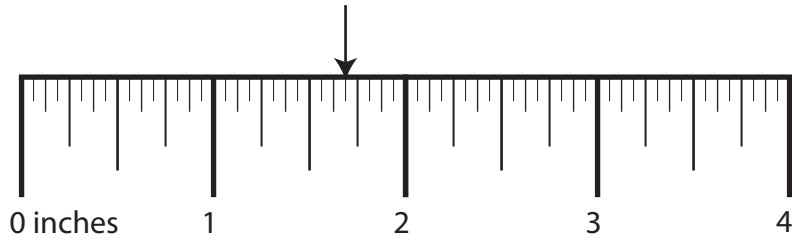
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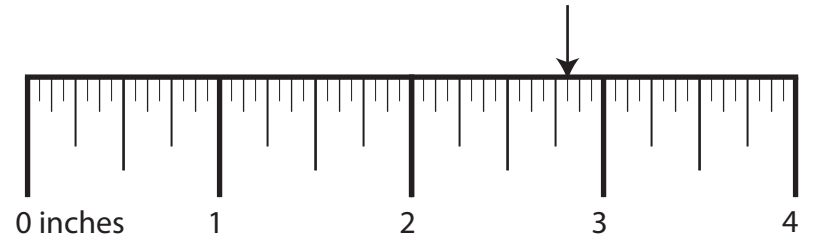
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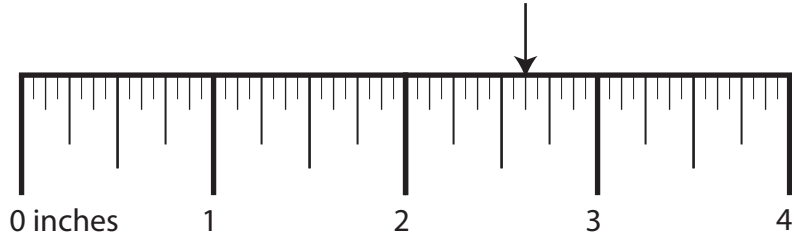
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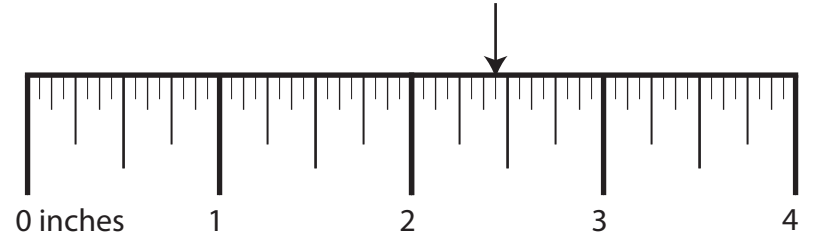
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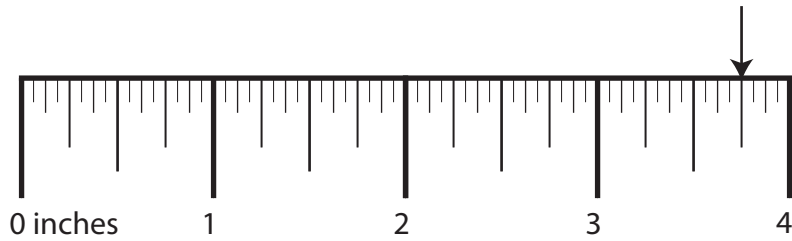
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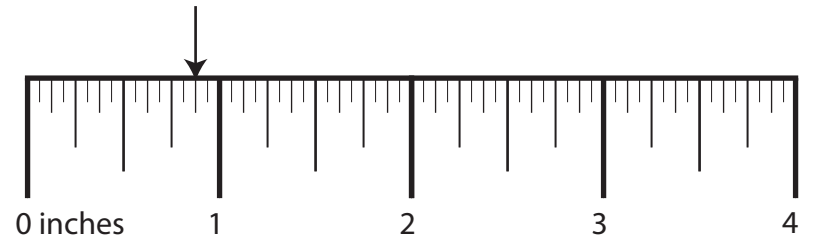
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Nails/Screws

[Remember, # or letter only, except 27/64, 14/32, 29/64]

55. What is $\frac{3}{8}$ more than $2 \frac{3}{8}$?
56. What is $\frac{1}{4}$ less than $2 \frac{3}{16}$?
57. What is $\frac{5}{16}$ more than $5 \frac{5}{16}$?
58. What is $\frac{3}{16}$ less than $4 \frac{3}{8}$?
59. 20 penny nail penetrate a $\frac{3}{8}$ " green girder?
60. clearance hole for a 16 gauge screw?
61. 16 penny nail penetrate a 2" dry mast?
62. countersink hole for a 12 gauge screw?