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| 1. | 12 ½ box gauge nail penetrate a 5/8" green dimension? | $1^{13/32} = 2 - 19/32$ |
| 2. | 11 ½ common gauge nail penetrate a 5/8" green mast? | $1^{13/32} = 2 - 19/32$ |
| 3. | 15 ½ box gauge nail penetrate a 1" green pole? | $0^{7/32} = 1 - 25/32$ |
| 4. | 12 ½ common gauge nail penetrate a 4" dry beam? | $2^0_1 = 1 \frac{1}{2} - 3 \frac{1}{2}$ |
| 5. | 50 penny nail penetrate a 1 ½" dry mast? | $4^{1/4} = 5 \frac{1}{2} - 1 \frac{1}{4}$ |
| 6. | 7 penny nail penetrate a 5/8" dry dimension? | $1^{11/16} = 2 \frac{1}{4} - 9/16$ |
| 7. | 4 penny nail penetrate a ½" green rafter? | $1^{1/32} = 1 \frac{1}{2} - 15/32$ |
| 8. | 10 ½ box gauge nail penetrate a 2 ½" green frame? | $0^{15/16} = 3 - 2^{1/16}$ |
| 9. | 10 ¼ common gauge nail penetrate a 3/4" dry board? | $1^{7/8} = 2 \frac{1}{2} - 5/8$ |
| 10. | 4 penny nail penetrate a 1 ¼" dry beam? | $0^{1/2} = 1 \frac{1}{2} - 1$ |
| 11. | 60 penny nail penetrate a 2 ½" dry beam? | $4^0_1 = 6 - 2$ |
| 12. | 6 penny nail penetrate a 1 ½" dry board? | $0^{3/4} = 2 - 1 \frac{1}{4}$ |
| 13. | 10 penny nail penetrate a 2" green beam? | $1^{7/16} = 3 - 1^{9/16}$ |
| 14. | 7 penny nail penetrate a 1 ¼" green beam? | $1^{7/32} = 2 \frac{1}{4} - 1^{1/32}$ |
| 15. | 16 penny nail penetrate a 2 ½" green timber? | $1^{7/16} = 3 \frac{1}{2} - 2^{1/16}$ |
| 16. | 9 penny nail penetrate a 1 ¼" dry girder? | $1^{3/4} = 2 \frac{3}{4} - 1$ |

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| 1. clearance hole for a 6 gauge screw? | 27 $\frac{9}{64} = \frac{9}{64}$ |
| 2. pilot hole for a 6 gauge screw? | 47 $\frac{9}{64} - \frac{1}{16} = \frac{5}{64}$ |
| 3. countersink hole for a 14 gauge screw? | V $\frac{1}{4} + \frac{1}{8} = \frac{3}{8}$ |
| 4. pilot hole for a 20 gauge screw? | H $\frac{21}{64} - \frac{1}{16} = \frac{17}{64}$ |
| 5. clearance hole for a 24 gauge screw? | V $\frac{3}{8} = \frac{3}{8}$ |
| 6. countersink hole for a 24 gauge screw? | $\frac{1}{2} - \frac{3}{8} + \frac{1}{8} = \frac{1}{2}$ |
| 7. clearance hole for a 3 gauge screw? | 41 $\frac{3}{32} = \frac{3}{32}$ |
| 8. clearance hole for a 4 gauge screw? | 35 $\frac{7}{64} = \frac{7}{64}$ |
| 9. clearance hole for a 24 gauge screw? | V $\frac{3}{8} = \frac{3}{8}$ |
| 10. clearance hole for a 12 gauge screw? | 2 $\frac{7}{32} = \frac{7}{32}$ |
| 11. clearance hole for a 2 gauge screw? | 41 $\frac{3}{32} = \frac{3}{32}$ |
| 12. pilot hole for a 14 gauge screw? | 12 $\frac{1}{4} - \frac{1}{16} = \frac{3}{16}$ |
| 13. clearance hole for a 9 gauge screw? | 17 $\frac{11}{64} = \frac{11}{64}$ |
| 14. clearance hole for a 20 gauge screw? | Q $\frac{21}{64} = \frac{21}{64}$ |
| 15. pilot hole for a 20 gauge screw? | H $\frac{21}{64} - \frac{1}{16} = \frac{17}{64}$ |
| 16. pilot hole for a 3 gauge screw? | 67 $\frac{3}{32} - \frac{1}{16} = \frac{1}{32}$ |