

Stair Layout Worksheet Answer Key

Name: Key

With the numbers below, determine the riser height, number of risers, and number of treads. Please show all three calculations that helped you determine your final answer.

Total Rise	Riser Height	# of Risers	# of Treads
$70 \frac{1}{2}''$ $70 \frac{1}{2} \div 7 = 10.07$ <hr/> $70 \frac{1}{2} \div 9 = 7.83$ $70 \frac{1}{2} \div 10 = 7.05^*$ $70 \frac{1}{2} \div 11 = 6.41$	7.05''	10	9 (10 - 1)
$103 \frac{3}{4}''$ $103 \frac{3}{4} \div 7 = 14.8$ <hr/> $103 \frac{3}{4} \div 13 = 7.98$ $103 \frac{3}{4} \div 14 = 7.41^*$ $103 \frac{3}{4} \div 15 = 6.92$	7.41''	14	13
$9' (78')$ $78 \div 7 = 11.14$ <hr/> $78 \div 10 = 7.8$ $78 \div 11 = 7.09^*$ $78 \div 12 = 6.5$	7.09''	11	10
$32''$ $32 \div 7 = 4.57$ <hr/> $32 \div 4 = 8$ $32 \div 5 = 6.4^*$ $32 \div 6 = 5.3$	6.4''	5	4
$67 \frac{1}{4}''$ $67.25 \div 7 = 9.06$ <hr/> $67.25 \div 8 = 8.41$ $67.25 \div 9 = 7.47^*$ $67.25 \div 10 = 6.73$	7.47''	9	10
$78 \frac{1}{2}''$ $78 \frac{1}{2} \div 7 = 11.21$ <hr/> $78 \frac{1}{2} \div 10 = 7.85$ $78 \frac{1}{2} \div 11 = 7.14^*$ $78 \frac{1}{2} \div 12 = 6.54$	6.54''	12	11
$97 \frac{5}{8}''$ $97.625 \div 7 = 13.95$ <hr/> $97.625 \div 13 = 7.51$ $97.625 \div 14 = 6.97^*$ $97.625 \div 15 = 6.51$	6.97''	14	13

$86''$ $86 \div 7 = 12.29$ <hr/> $86 \div 11 = 7.82$ $86 \div 12 = 7.17^*$ $86 \div 13 = 6.62$	7.17''	12	11
$60 \frac{1}{2}''$ $6 \frac{1}{2} \div 7 = 8.64$ <hr/> $60 \frac{1}{2} \div 7 = 7.82$ $60 \frac{1}{2} \div 8 = 7.56^*$ $60 \frac{1}{2} \div 9 = 6.72$	7.56''	8	7
$23 \frac{3}{4}''$ $23 \frac{3}{4} \div 7 = 3.39$ <hr/> $23 \frac{3}{4} \div 2 = 11.68$ $23 \frac{3}{4} \div 3 = 7.78$ $23 \frac{3}{4} \div 4 = 5.84^*$	5.84''	4	3