Adding Imperial Measurements

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Imperial Measures of Length

Inch (can be broken into halves, quarters, eighths, sixteenths, thirty-seconds or sixty-fourths)

1 Foot = 12 inches

1 Yard = 3 feet
or 36 inches

1 mile = 1760 yards
or 5280 feet
or 63360 inches

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When adding inches, regroup 1 foot for every 12 inches.

When adding feet, regroup 1 yard for every 3 feet.

When adding yards, regroup 1 mile for every 1, 760 yards.

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3 feet 8 inches
+ 7 feet 9 inches

10 ft 17 inches = 17"
= 1ft, 5"
= 11ft. 5inches
= 11' 5"
= 3yds 2feet 5inches

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6 feet 4 inches
+ 2 feet 11 inches

8' 15" = 1' 3"

9' 3"

= 3yds 3inches

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23 feet 10 inches
+ 18 feet 7 inches

41' + 17" = 1' 5"

42' 5"

= 14yds 5inches

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14 feet 6 inches
+ 5 feet 11 inches

19' 17" = 1' 5"

20' 5"

6yds. 2ft. 5inch

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7 feet 3 inches
+ 4 feet 9 inches

11' 12" → 1'

12'

= 4 yds.

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214 feet 9 inches
+ 225 feet 8 inches

439' 17" = 1' 5"

440' 5"

146 yds 2 feet 5 inches

(438 ft)

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21 feet 8 inches
+ 9 feet 6 inches

30' 14" → 1' 2"

31' 2"

10 yds. 1 ft. 2 in.

(30 ft.)

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33 feet 8 inches
+ 2 feet 10 inches

35' 18" → 1' 6"

36' 6"

12 yds 6 inches

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54 feet 4 inches
+ 11 feet 2 inches

4 feet 9 inches
+ 12 feet 7 inches

13 feet 11 inches
+ 25 feet 6 inches

145 feet 11 inches
+ 248 feet 9 inches

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Change into yards, feet and inches.

4 feet 9 inches
+ 12 feet 7 inches

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13 feet 11 inches
+ 25 feet 6 inches

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45 feet 7 inches
+ 48 feet 10 inches

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38 feet 9 inches
+ 41 feet 6 inches

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$$\begin{array}{rrr} 145 & \text{feet} & 11 \text{ inches} \\ + \ 248 & \text{feet} & 9 \text{ inches} \\ \hline \end{array}$$

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$$\begin{array}{rrr} 56 & \text{feet} & 4 \text{ inches} \\ + \ 12 & \text{feet} & 6 \text{ inches} \\ \hline \end{array}$$

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How to Add Feet and Inches and Parts of an Inch

1. Add the fractions of an inch together.
   If the number exceeds 1, change into inches and fractions of an inch.

2. Add the inches together.
   If the number is greater than 12, divide the inches by 12.
   The quotient is the number of feet that needs to be added to the other feet.
   The remainder is the number of extra inches.

3. Add the feet together.

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$$\begin{array}{rrr} 41 \text{ ft} & 4\frac{1}{2} \text{ in} \\ + \ 85 \text{ ft} & 2\frac{1}{4} \text{ in} \\ \hline \end{array}$$

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$$\begin{array}{rr} 42 \text{ ft} & 10\frac{1}{8} \text{ in} \\ + \ 44 \text{ ft} & 7\frac{1}{2} \text{ in} \\ \hline \end{array}$$

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$$\begin{array}{rr} 40 \text{ ft} & 9\frac{13}{16} \text{ in} \\ + \ 60 \text{ ft} & 4\frac{1}{8} \text{ in} \\ \hline \end{array}$$

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$$\begin{array}{rr} 20 \text{ ft} & 2\frac{1}{2} \text{ in} \\ + \ 39 \text{ ft} & 11\frac{7}{16} \text{ in} \\ \hline \end{array}$$

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$$\begin{array}{rr} 19 \text{ ft} & 11\frac{1}{16} \text{ in} \\ + \ 78 \text{ ft} & 11\frac{7}{16} \text{ in} \\ \hline \end{array}$$

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$$\begin{array}{rr} 26 \text{ ft} & 3\frac{1}{2} \text{ in} \\ + \ 50 \text{ ft} & 6\frac{1}{2} \text{ in} \\ \hline \end{array}$$

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$$\begin{array}{rr} 33 \text{ ft} & 7\frac{1}{2} \text{ in} \\ + \ 53 \text{ ft} & 8\frac{7}{8} \text{ in} \\ \hline \end{array}$$

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$$\begin{array}{rr} 63 \text{ ft} & 9\frac{1}{2} \text{ in} \\ + \ 97 \text{ ft} & 4\frac{1}{2} \text{ in} \\ \hline \end{array}$$

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$$\begin{array}{rr} 10 \text{ ft} & 11\frac{7}{8} \text{ in} \\ + \ 53 \text{ ft} & 6\frac{3}{8} \text{ in} \\ \hline \end{array}$$

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$$\begin{array}{rr} 64 \text{ ft} & 3\frac{3}{16} \text{ in} \\ + \ 54 \text{ ft} & 5\frac{9}{16} \text{ in} \\ \hline \end{array}$$

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Measurement Comparison

Use >, <, or = to compare.

1. 12 inches ◯ 1 foot

2. 36 inches ◯ 2 feet

3. 48 inches ◯ 6 feet

4. 60 inches ◯ 3 feet

5. 4 feet ◯ 36 inches

6. 5 feet ◯ 72 inches

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4. 41 in = _____ ft _____ in

5. 9 ft = _____ yds

6. 7 yds = _____ ft

3. 48 in = _____ ft _____ in

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7. 25 ft = _____ yds _____ ft

8. 16 ft = _____ yds _____ ft

9. 18 yds = _____ ft

10. 21 yds = _____ yds _____ ft

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student desk 	pencil 	math book 	your shoe 
dollar bill 	chalkboard 	classroom door 	projector screen 

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chair seat 	computer monitor 	window 	bookshelf 
hallway 	teacher's desk 	From the door to your desk	

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$$\begin{array}{rr} 71 \text{ ft} & 11\tfrac{1}{2} \text{ in} \\ + \ 67 \text{ ft} & 5\tfrac{1}{2} \text{ in} \\ \hline \end{array}$$

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$$\begin{array}{rr} 89 \text{ ft} & 1\tfrac{11}{16} \text{ in} \\ + \ 11 \text{ ft} & 11\tfrac{3}{4} \text{ in} \\ \hline \end{array}$$

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$$\begin{array}{r} 60 \text{ ft} \quad 1\frac{1}{2} \text{ in} \\ +\ 55 \text{ ft} \quad 10\frac{1}{2} \text{ in} \\ \hline \end{array}$$

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$$\begin{array}{r} 10 \text{ ft} \quad 3\frac{1}{2} \text{ in} \\ +\ 52 \text{ ft} \quad 1\frac{1}{2} \text{ in} \\ \hline \end{array}$$

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$$\begin{array}{r} 44 \text{ ft} \quad 3\frac{1}{2} \text{ in} \\ +\ 79 \text{ ft} \quad 8\frac{1}{2} \text{ in} \\ \hline \end{array}$$

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$$\begin{array}{r} 41 \text{ ft} \quad 4\frac{1}{2} \text{ in} \\ +\ 85 \text{ ft} \quad 2\frac{1}{4} \text{ in} \\ \hline 126 \text{ ft} \quad 6\frac{3}{4} \text{ in} \end{array} \qquad \begin{array}{r} 42 \text{ ft} \quad 10\frac{1}{8} \text{ in} \\ +\ 44 \text{ ft} \quad 7\frac{1}{2} \text{ in} \\ \hline 87 \text{ ft} \quad 5\frac{5}{8} \text{ in} \end{array} \qquad \begin{array}{r} 40 \text{ ft} \quad 9\frac{13}{16} \text{ in} \\ +\ 60 \text{ ft} \quad 4\frac{1}{8} \text{ in} \\ \hline 101 \text{ ft} \quad 1\frac{15}{16} \text{ in} \end{array}$$

$$\begin{array}{r} 20 \text{ ft} \quad 2\frac{1}{2} \text{ in} \\ +\ 39 \text{ ft} \quad 11\frac{7}{16} \text{ in} \\ \hline 60 \text{ ft} \quad 1\frac{15}{16} \text{ in} \end{array} \qquad \begin{array}{r} 19 \text{ ft} \quad 11\frac{1}{16} \text{ in} \\ +\ 78 \text{ ft} \quad 11\frac{7}{16} \text{ in} \\ \hline 98 \text{ ft} \quad 10\frac{1}{2} \text{ in} \end{array} \qquad \begin{array}{r} 26 \text{ ft} \quad 3\frac{1}{2} \text{ in} \\ +\ 50 \text{ ft} \quad 6\frac{1}{2} \text{ in} \\ \hline 76 \text{ ft} \quad 10 \text{ in} \end{array}$$

$$\begin{array}{r} 33 \text{ ft} \quad 7\frac{1}{2} \text{ in} \\ +\ 53 \text{ ft} \quad 8\frac{7}{8} \text{ in} \\ \hline 87 \text{ ft} \quad 4\frac{3}{8} \text{ in} \end{array} \qquad \begin{array}{r} 63 \text{ ft} \quad 9\frac{1}{2} \text{ in} \\ +\ 97 \text{ ft} \quad 4\frac{1}{2} \text{ in} \\ \hline 161 \text{ ft} \quad 2 \text{ in} \end{array} \qquad \begin{array}{r} 10 \text{ ft} \quad 11\frac{7}{8} \text{ in} \\ +\ 53 \text{ ft} \quad 6\frac{3}{8} \text{ in} \\ \hline 64 \text{ ft} \quad 6\frac{1}{4} \text{ in} \end{array}$$

$$\begin{array}{r} 64 \text{ ft} \quad 3\frac{3}{16} \text{ in} \\ +\ 54 \text{ ft} \quad 5\frac{9}{16} \text{ in} \\ \hline 118 \text{ ft} \quad 8\frac{3}{4} \text{ in} \end{array} \qquad \begin{array}{r} 71 \text{ ft} \quad 11\frac{1}{2} \text{ in} \\ +\ 67 \text{ ft} \quad 5\frac{1}{2} \text{ in} \\ \hline 139 \text{ ft} \quad 5 \text{ in} \end{array} \qquad \begin{array}{r} 89 \text{ ft} \quad 1\frac{11}{16} \text{ in} \\ +\ 11 \text{ ft} \quad 11\frac{3}{4} \text{ in} \\ \hline 101 \text{ ft} \quad 1\frac{7}{16} \text{ in} \end{array}$$

$$\begin{array}{r} 60 \text{ ft} \quad 1\frac{1}{2} \text{ in} \\ +\ 55 \text{ ft} \quad 10\frac{1}{2} \text{ in} \\ \hline 116 \text{ ft} \end{array} \qquad \begin{array}{r} 10 \text{ ft} \quad 3\frac{1}{2} \text{ in} \\ +\ 52 \text{ ft} \quad 1\frac{1}{2} \text{ in} \\ \hline 62 \text{ ft} \quad 5 \text{ in} \end{array} \qquad \begin{array}{r} 44 \text{ ft} \quad 3\frac{1}{2} \text{ in} \\ +\ 79 \text{ ft} \quad 8\frac{1}{2} \text{ in} \\ \hline 124 \text{ ft} \end{array}$$

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