



Additional Practice 12-1

Convert Customary Units of Length

Another Look!

Remember:

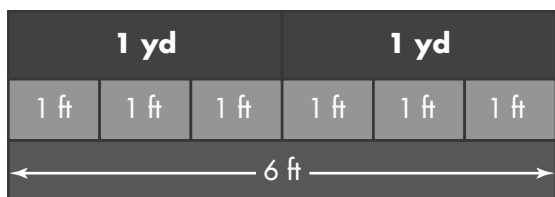
1 foot equals 12 inches.
1 yard equals 3 feet, or 36 inches.
1 mile equals 1,760 yards, or 5,280 feet.



How to change from one customary unit of length to another:

Converting from a smaller unit to a larger unit:

6 feet = _____ yards

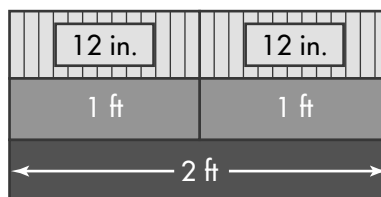


You know $3 \text{ ft} = 1 \text{ yd}$. **Divide** $6 \div 3$.

So, $6 \text{ ft} = 2 \text{ yd}$.

Converting from a larger unit to a smaller unit:

2 feet = _____ inches



You know $1 \text{ ft} = 12 \text{ in.}$ **Multiply** 2×12 .

So, $2 \text{ ft} = 24 \text{ in.}$

In **1–9**, convert each unit of length.

1. $12 \text{ ft} = \underline{4} \text{ yd}$

2. $2 \text{ mi} = \underline{3,520} \text{ yd}$

3. $46 \text{ in.} = \underline{3} \text{ ft } \underline{10} \text{ in.}$

4. $7 \text{ ft} = \underline{84} \text{ in.}$

5. $3 \text{ mi} = \underline{15,840} \text{ ft}$

6. $108 \text{ in.} = \underline{9} \text{ ft}$

7. $72 \text{ in.} = \underline{2} \text{ yd}$

8. $2 \text{ ft } 3 \text{ in.} = \underline{27} \text{ in.}$

9. $45 \text{ in.} = \underline{1} \text{ yd } \underline{9} \text{ in.}$

In **10–15**, compare lengths. Write $>$, $<$, or $=$ for each \bigcirc .

10. $64 \text{ in.} \bigcirc 5 \text{ ft}$

11. $2 \text{ mi} \bigcirc 3,333 \text{ yd}$

12. $36 \text{ yd } 2 \text{ ft} \bigcirc 114 \text{ ft } 2 \text{ in.}$

13. $9 \text{ yd} \bigcirc 324 \text{ in.}$

14. $4 \text{ ft } 7 \text{ in.} \bigcirc 56 \text{ in.}$

15. $25 \text{ ft} \bigcirc 8 \text{ yd } 11 \text{ in.}$



16. Find the perimeter of the rectangle in yards. **6 yd**



17. Lucy wants to make different types of cheesecake. Each cheesecake uses $\frac{2}{3}$ pound of cream cheese. She has 2 pounds of cream cheese. How many cheesecakes can she make?
3 cheesecakes

For 18 and 19, use the table.

18. Four friends each took a different path walking from the lunchroom to the gymnasium. The table shows the distance that each of them walked. Who walked the farthest?

Lydia

19. Write the distance Domingo walked in feet and in inches.

392 ft; 4,704 in.

Distance Walked	
Rowan	150 yd
Janelle	429 ft 8 in.
Domingo	130 yd 2 ft
Lydia	460 ft

20. **Be Precise** Jordan is 4 feet 8 inches tall. Her mother is 5 feet 10 inches tall. How much taller is Jordan's mother than Jordan? Give your answer in feet and inches.

Jordan's height is $4 \times 12 + 8 = 56$ in. Her mother's height is $5 \times 12 + 10 = 70$ in. $70 - 56 = 14$ in. or 1 ft 2 in.

21. **Higher Order Thinking** How can you find the number of inches in 1 mile? Show your work.

Sample answer: 1 mile = 1,760 yd and 1 yd = 36 in. So, $1 \text{ mi} = 1,760 \times 36 \text{ in.} = 63,360 \text{ in.}$



Assessment Practice

22. Select all of the measurements greater than 100 inches.

- ☒ 8 feet 6 inches
☐ 8 feet
☒ 3 yards
☐ 2 yards 19 inches

23. Select all of the measurements less than 4 yards.

- ☒ 143 inches
☐ 47 feet
☐ 12 feet
☒ 11 feet