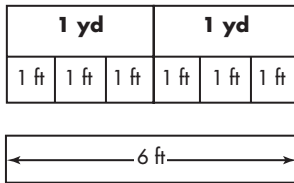


Converting Customary Units of Length

How to change a length measurement from one unit to another:

Converting a length measurement from a smaller unit to a larger unit

6 feet = _____ yards



Think: If I measure the same length using a larger unit, I will need a smaller number of units.

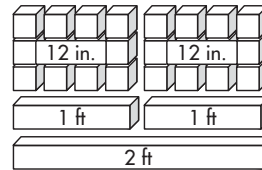
Operation: Divide.

You know $3 \text{ ft} = 1 \text{ yd}$.

Find $6 \div 3$; $6 \text{ ft} = 2 \text{ yd}$

Converting a length measurement from a larger unit to a smaller unit

2 feet = _____ inches



Think: If I measure the same length using a smaller unit, I will need a larger number of units.

Operation: Multiply.

You know $1 \text{ ft} = 12 \text{ in.}$

Find 2×12 ; $2 \text{ ft} = 24 \text{ in.}$

Relationships Among Customary Units of Length			
Inch	Foot	Yard	Mile
12 in. =	1 ft		
36 in. =	3 ft	= 1 yd	
	5,280 ft =	1,760 yd =	1 mi

Complete.

1. $5 \text{ ft} =$ _____ in.

2. $3 \text{ mi} =$ _____ ft

3. $108 \text{ in.} =$ _____ ft

4. $72 \text{ in.} =$ _____ yd

5. $2 \text{ ft } 3 \text{ in.} =$ _____ in.

6. $45 \text{ in.} =$ _____ yd _____ in.

7. Which is the greater length, 2 yards or 5 feet? _____

8. **Estimation** A creek runs along a distance of 16,300 feet. About how many miles long is the creek? _____

Name _____

Converting Customary Units of Length

Convert each unit.

1. 12 yd = _____ in.

2. 30 ft = _____ yd

3. 75 ft = _____ in.

4. 10 ft 7 in. = _____ in.

5. 6 mi = _____ ft

6. 2 mi = _____ yd

Write $>$, $=$, or $<$ for each \bigcirc .

7. 64 in. \bigcirc 5 ft

8. 2 mi \bigcirc 3,333 yd

9. 36 yd 2 ft \bigcirc 114 ft 2 in.

The Statue of Liberty was a gift to the United States from the people of France. Some of the dimensions of the statue are shown here.

Measurements of the Statue of Liberty	
Height from base of statue to the torch	151 ft 1 in.
Length of hand	16 ft 5 in.
Length of index finger	8 ft
Length of nose	4 ft 6 in.
Thickness of right arm	12 ft

10. What is the height, from the base of the statue to the torch, in inches? _____

11. What is the thickness of the statue's right arm in yards? _____

12. Which measure is less than 435 inches?

A 37 ft

B 36 ft 10 in.

C 12 yd 3 in.

D 12 ft 3 in.

13. Explain how you can find the number of feet in 40 yards.
