

Name: _____ Block: _____ Date: _____

Mrs. van der Vossen

Math 10W

3.1 Worksheet Systems of Measurement

1. What is the perimeter of a square garden with a side length of 3.2 m?
2. What is the perimeter of a rectangular room that has a length of 5.1 m and a width that is 2 m less than the length?
3. How many inches is 7'4"?
4. How many yards is 9 mi?
5. Convert 4.8 miles into feet.
6. Convert 106 inches into feet and inches.

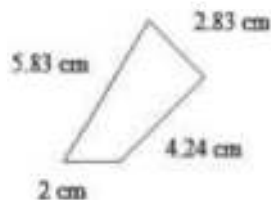
7. What is the circumference of a circular hot tub if its radius is 1.35 m?

8. What is the diameter of a circular window with a circumference of 1.35 m?

9. You want to build a fence around your front yard. The yard measures 95 yards long and 50 yards wide. Your house, which is 20 yards wide, runs along the width edge of the fence. You will not need any fencing along the width of the house. How much fencing do you need?

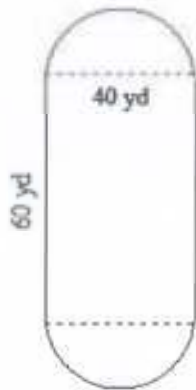
Draw a diagram to help you solve this.

10. Find the perimeter of the shape below.

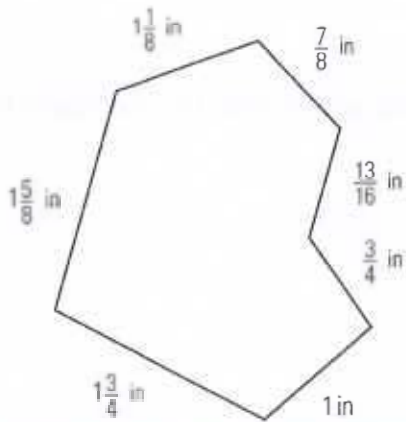


11. A circular garden has a diameter of 10 yards. Rose bushes need to be planted a minimum of 3 ft apart. How many rose bushes can be planted along the circumference?

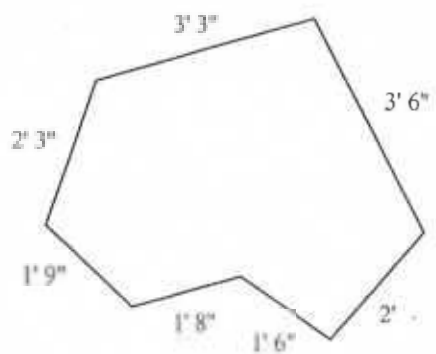
12. Find the distance Lori runs if she completes 9 laps of this track.



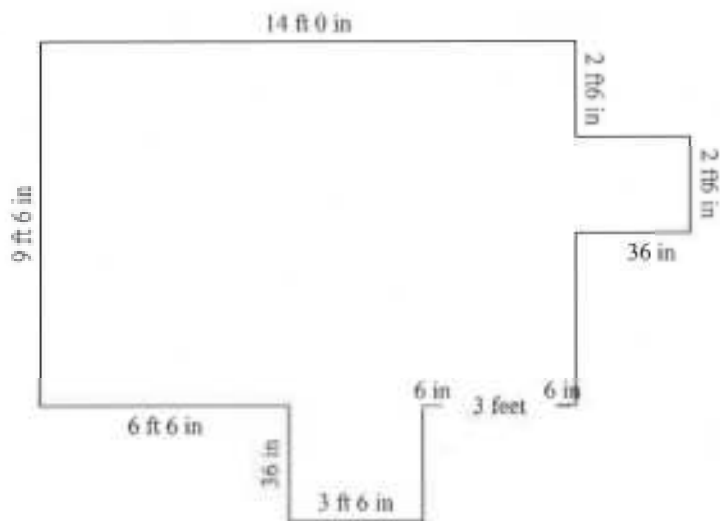
13. What is the perimeter of this figure?



14. What is the perimeter of this figure?



15. a) Calculate the amount of baseboard that will be needed to finish the room below.



b) If you can buy baseboard only in whole feet, how much will it cost for the room if baseboard costs \$1.64/foot?

16. While running, Lucy counts that she has made 24 820 strides. She estimates that each of her strides is 31 inches long.

a) How many inches has Lucy run?

b) How many feet has Lucy run?

c) How many yards has Lucy run?

d) How many miles has Lucy run? Round to the nearest mile.