

3.1.2 Perimeter and Area Practice

Show all work. Round to the nearest hundredth.

1. Ari, a gardener, estimates the cost of seeding a 150 m by 210 m area with grass seed. He needs 3 pounds of seed per 1000m². How many pounds of seed will Ari need?
2. You are building a fence around your vegetable garden in your backyard. If the garden is 13' long and 4'6" wide, what is the total length of fencing you will need?
3. Mary is building a dog run that is 17.5m long and 10.6 wide. How much fencing will she need if the opening is 2.5m wide and will not need fencing?

4. A package of paper is 2" high and 8.5" wide. If a warehouse shelf is 1'5" high and 2 yards long, how many packages of paper can be put on the shelf? **(the paper can't stick over the top of the shelf!)**
5. A room measures 12' by 10' Carpeting costs \$45.98/ft². A customer will have to purchase 10% more carpeting than floor area due to waste and he cannot purchase partial square metres. What is the minimum cost of the carpeting?

6. Kuldeep has been hired to lay terracotta tiles on a floor that measure 4.2 m by 3.8 m. The tiles are .75m by .75m and come in boxes of 12.
- Calculate the area of 1 tile (in meters)
 - Calculate the area of the floor he needs to cover.
 - How many tiles will he need to cover the floor?
 - How many boxes will he need?
 - If the tiles cost \$185.95 per box, how much will the tiles cost in total?

Challenge**Hint! Break the pool into 2 shapes!**

Bob calculates the cost of cementing the bottom and sides of a circular pool. When all costs are considered, the job will cost \$175.85 per square metre of finished area. If the pond has a radius of 3 m and a depth of 2 m, how much will he charge for the job?