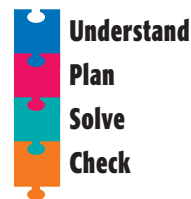


Problem Solving Strategy

Act It Out

NCTM Standards 1, 2, 6, 7, 8, 9, 10



- 1 A cardboard box has a volume of 48 cubic feet. Give four possible sets of measurements that could be its dimensions.

feet \times feet \times feet

feet \times feet \times feet

feet \times feet \times feet

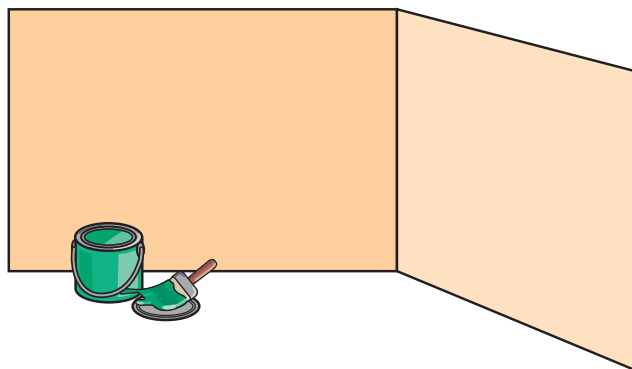
feet \times feet \times feet

- 2 Melissa folded a net and made a cube. She measured one of the edges as 4 inches long. How much paper did she use to make the cube? _____

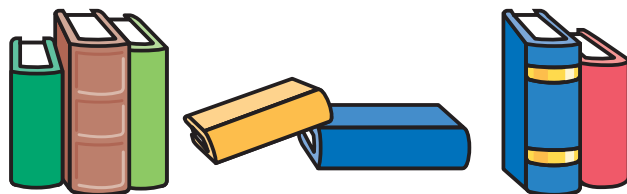
- 3 The Gangulis are painting their bedroom walls. To figure out how much paint they need, they will find the area of the walls in the rectangular room without worrying about windows and doors. One wall is 10 feet long and the other wall is 12 feet long. Both walls are 8 feet high.

An estimate of the total area of the room's four walls is _____ sq ft.

The actual area of the room's four walls is _____ sq ft.



- 4 Cory is mailing some books that are each 1 inch by 4 inches by $5\frac{1}{2}$ inches. He uses a box that is 4 inches by 3 inches by $5\frac{1}{2}$ inches. How many books can he send in the box?



_____ books