

Estimating Square Roots Word Problems

1. Kai uses an entire can of paint on a square backdrop for the school play. The label on the can states that one can covers 27 m^2 of wall surface. Estimate the backdrop's side length to the nearest tenth.
2. A square has an area of 20 cm^2 . Estimate the side length to the nearest tenth.
3. While shopping online, Ji Hun find a square rug with an area of 11 m^2 . He needs to know if it will fit in his 4 m by 5 m bedroom.
 - a. Estimate the side length of the rug to the nearest tenth.
 - b. Will the rug fit in the bedroom?
4. Alex is thinking of a number. The number has a square root between 7 and 8, and it is a multiple of 12. What is the number(s)?
5. If a square has an area of 100 in^2 , what is the length of one of the sides?
 - a. What is the perimeter of this square?
6. A yard has a square gate that has an area of 8 m^2 . What is the height of the gate in meters?
7. Carry wants to frame a square picture, which has an area of 950 in^2 . How long is each side of the picture?
 - a. What is the perimeter of the frame?
8. James wants to buy a new rug for his living room. In a department store he finds a square rug that has an area of 9 m^2 . How long is each side of the rug?

Square Roots Word Problems

JR Anderson



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