## Unit 3 Lesson 2: Square Roots and Cube Roots

### 1 It’s a Square (Warm up)

#### Student Task Statement

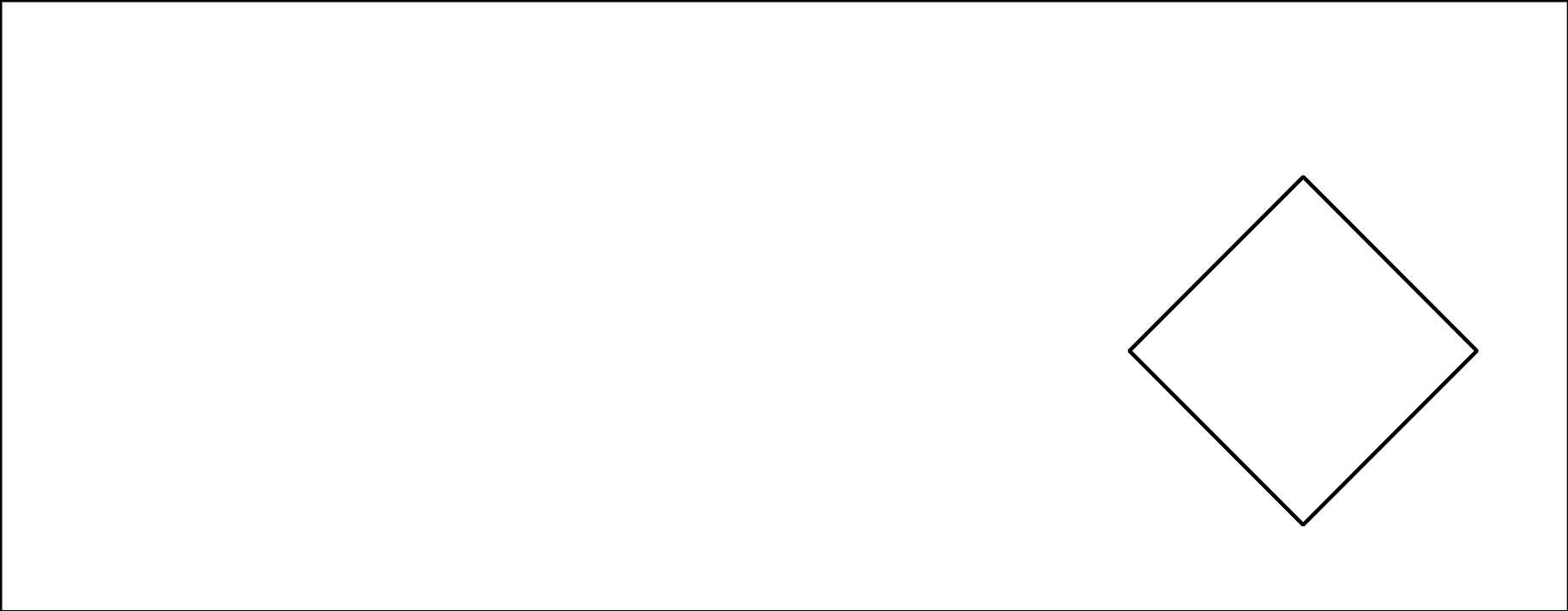
Find the area of square .



### 2 Squares and Their Side Lengths (Optional)

#### Student Task Statement

1. Complete the table with the area of each square in square units, and its exact side length in units.

* 

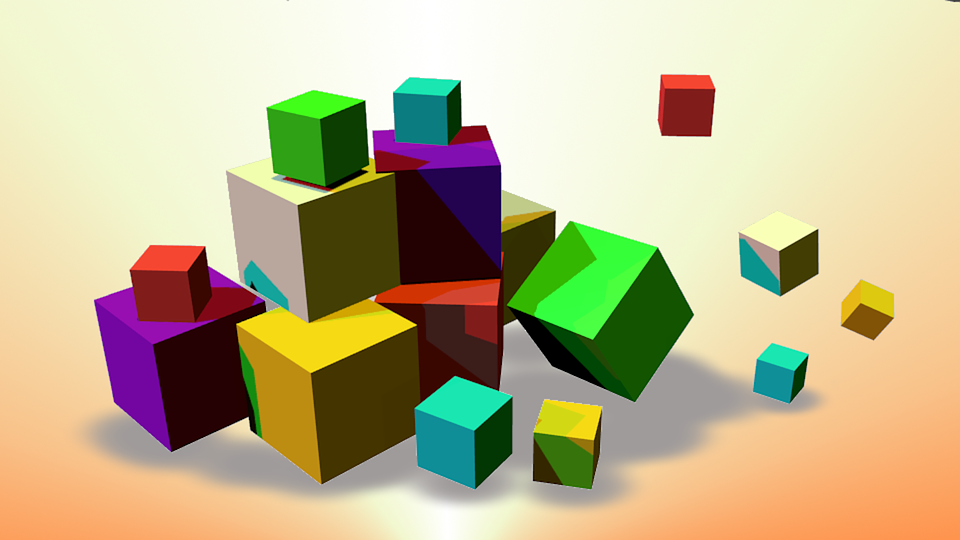
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| * figure | * A | * B | * C | * D | * E |
| * area |  |  |  |  |  |
| * side length |  |  |  |  |  |

1. This table includes areas in square units and side lengths in units of some more squares. Complete the table.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| * area | * 9 |  | * 23 |  | * 89 |
| * side length |  | * 4 |  | * 6.4 |  |

### 3 Cube It (Optional)

#### Student Task Statement



1. A cube has edge length 3 units. What is the volume of the cube?
2. A cube has edge length 4 units. What is the volume of the cube?
3. A cube has volume 8 units. What is the edge length of the cube?
4. A cube has volume 7 units. What is the edge length of the cube?
5. is between 10 and 11 because and . Determine the whole numbers that each of these cube roots lies between:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |



|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| between | 1 and 2 | 2 and 3 | 3 and 4 | 4 and 5 | 5 and 6 | 6 and 7 | 7 and 8 | 8 and 9 |
|  |  |  |  |  |  |  |  |  |



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