

Recognize perfect squares and their roots

NAME	DATE	SCORE / 10
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1 Is 225 a perfect square? If it is, what is its square root?

- ☐ Yes, its square root is 16
 ☐ Yes, its square root is 15
 ☐ Yes, its square root is 14
☐ No, it is not a perfect square

2 Emma has 27 square tiles. Can Emma use all of them to make one big square? If so, how many tiles are on each side?

- ☐ Yes, with 6 tiles on each side
 ☐ Yes, with 5 tiles on each side
☐ No, the tiles cannot make a square

3 Write a perfect square from 132 to 173.

4 Is 170 a perfect square? If it is, what is its square root?

- ☐ No, it is not a perfect square
 ☐ Yes, its square root is 13
 ☐ Yes, its square root is 85
☐ Yes, its square root is 14

5 Ivy has 9 square tiles. Can Ivy use all of them to make one big square? If so, how many tiles are on each side?

- ☐ Yes, with 3 tiles on each side
 ☐ No, the tiles cannot make a square
☐ Yes, with 4 tiles on each side
 ☐ Yes, with 2 tiles on each side

6 Write a perfect square from 35 to 66.

7

Is 144 a perfect square? If it is, what is its square root?

- ☐ Yes, its square root is 13 ☐ Yes, its square root is 72 ☐ Yes, its square root is 12
☐ No, it is not a perfect square
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8

Ana has 51 square tiles. Can Ana use all of them to make one big square? If so, how many tiles are on each side?

- ☐ Yes, with 8 tiles on each side ☐ No, the tiles cannot make a square
☐ Yes, with 7 tiles on each side
-

9

Is 49 a perfect square? If it is, what is its square root?

- ☐ Yes, its square root is 8 ☐ No, it is not a perfect square ☐ Yes, its square root is 7
☐ Yes, its square root is 6
-

10

Is 16 a perfect square? If it is, what is its square root?

- ☐ Yes, its square root is 4 ☐ No, it is not a perfect square ☐ Yes, its square root is 8
☐ Yes, its square root is 5

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1 Yes, its square root is 15

3 144

Any one of these is right too: 169.

5 Yes, with 3 tiles on each side

7 Yes, its square root is 12

9 Yes, its square root is 7

2 No, the tiles cannot make a square

4 No, it is not a perfect square

6 36

Any one of these is right too: 49, 64.

8 No, the tiles cannot make a square

10 Yes, its square root is 4