

SQUARE NUMBERS



Name: _____ Date: _____

1. What is a square number?

A **square number** is the answer you get when you multiply a whole number by itself. It is called a square number because that many dots can be arranged in a perfect square.

1 × 1 = 1	2 × 2 = 4	3 ×3= 9	4×4=16
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Remember: 1, 4, 9 and 16 are square numbers. For example, 3 × 3 = 9, so 9 is a square number.

2. Complete the square number facts.

Number ×	Square number
itself 1 × 1	_____
2 × 2	_____
3 × 3	_____
4 × 4	_____
5 × 5	_____

3. Circle the square numbers.

Circle only the numbers that are square numbers.

2	**4**	**6**	**9**	**10**	**12**	**16**	**18**	**25**

4. Fill in the missing numbers.

a) 1, 4, 9, _____, 25

b) 4, 9, _____, 25, 36

c) 1, _____, 9, 16, 25

5. Think and draw!

Draw a square with 3 rows and 3 columns of dots. Then complete the number sentence:

My 3 × 3 square:	**3 × 3 = _____**

Challenge: What comes next? 1, 4, 9, 16, 25, _____, _____

Great work! Square numbers are made by multiplying a number by itself.

SQUARE ROOTS



Name: _____ Date: _____

1. What is a square root?

A **square root** tells us which number was multiplied by itself to make a square number. It is like going backwards from a square number.

Ask yourself: "What number times itself makes this number?"

√1 = 1	√4 = 2	√9 = 3	√16 = 4	√25 = 5
1 × 1 = 1	2 × 2 = 4	3 × 3 = 9	4 × 4 = 16	5 × 5 = 25

Example: The square root of 9 is 3 because 3 × 3 = 9. The symbol √ means "square root".

2. Find the square roots.

Think: What number multiplied by itself gives the number shown?

Number	Squareroot
√1	_____
√4	_____
√ 9	_____
√ 16	_____
√ 25	_____

3. Match each square root to its answer.

√4	5
√25	2
√9	4
√16	3

Write the correct answer beside each squareroot.

4. Choose the correct answer.

a) √9 = 2 3 4 b) √6 = 3 4 5

c) √25 = 4 5 6 d) √ = 1 2 3

5. Draw and discover!

Draw 9 dots in 3 equal rows. Then complete the number sentences:

My 3 × 3 dot square:	**3 × 3 = _____**
	√9 = _____

Challenge: If 4 × 4 = 16, what is √16? _____

Remember: A square root is the number that was multiplied by itself.