

Name: \_\_\_\_\_

## SQUARE NUMBERS



A square number is a number that is the result of multiplying an integer by itself.

For example,  $1^2 = 1 \times 1 = 1$ ,  $2^2 = 2 \times 2 = 4$ , and so on.



- The first 6 square numbers are shown above.
- Use this to **complete the table below**, which has been partially filled in to help you get started.

$1^2$	$= 1 \times 1$	$= 1$
$2^2$	$= 2 \times 2$	$= 4$
$3^2$		
	$= 4 \times 4$	
		$= 36$
$12^2$		$= 144$

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1. Use = or  $\neq$  to make each number statement correct.

a)  $5^2$  ○  $5 \times 5$

b)  $6^2$  ○ 12

 = Equal

c)  $7^2$  ○ 49

d)  $9^2$  ○ 91

 = Not Equal

e)  $3^2 + 4^2$  ○ 25

2. **Adding** and **Subtracting** Square Numbers:

a)  $4^2 + 3^2 =$   
 $16 + 9 = 25$

b)  $8^2 - 3^2 =$

c)  $11^2 - 6^2 =$

d)  $4^2 + 7^2 =$

e)  $12^2 - 4^2 =$

f)  $5^2 + 11^2 =$

g)  $4^2 - 1^2 =$

h)  $9^2 + 8^2 =$

3. **Multiplying** and **Dividing** Square Numbers:

a)  $3^2 \times 2^2 =$   
 $9 \times 4 = 36$

b)  $6^2 \div 3^2 =$

c)  $4^2 \times 5^2 =$

d)  $8^2 \div 4^2 =$

e)  $7^2 \times 1^2 =$

f)  $10^2 \div 2^2 =$

g)  $3^2 \times 5^2 =$

h)  $12^2 \div 2^2 =$

i)  $5^2 \times 4^2 \div 2^2 =$