The number x is the square root of y if  $x^2 = y$ 

5 is a square root of 25 because  $5^2 = 25$  8 is a square root of 64 because  $8^2 = 64$ 

-5 is a square root of 25 because  $(-5)^2 = 25$ 

-8 is a square root of 64 because  $(-8)^2 = 64$ 

A perfect square is the result of an integer squared.

x	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<i>x</i> <sup>2</sup>															

Perfect squares

$$\sqrt{36}$$

$$\sqrt{81}$$

$$\sqrt{196}$$
 $\sqrt{9}$ 

$$\sqrt{81}$$

$$\sqrt{9}$$

A perfect square is the result of an integer squared.

x	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
$x^2$	1	4	9	16	25	36	49	64	81	100	121	144	169	196	225

 $\sqrt{30}$ 

 $\sqrt{72}$ 

A perfect square is the result of an integer squared.

x	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<i>x</i> <sup>2</sup>	1	4	9	16	25	36	49	64	81	100	121	144	169	196	225

 $\sqrt{10}$ 

 $\sqrt{185}$ 

## A perfect square is the result of an integer squared.

$\chi$		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
$\chi^2$	2	1	4	9	16	25	36	49	64	81	100	121	144	169	196	225

$$-\sqrt{40}$$