Squares and Square Roots

1^2

2^2

3^2

4^2

5^2

6^2

7^2

8^2

9^2

10^2

11^2

12^2

Solving Equations using Square Roots

Solve for c.

$81 = c^2$

$c =$ ____ or ____

Solve for h.

$100 = h^2$

$h =$ ____ or ____

Solve for w.

$144 = w^2$

$w =$ ____ or ____

Solve for b.

$b^2 = 36$

$b =$ ____ or ____

Solve for j.

$25 = j^2$

$j =$ ____ or ____

Solve for q.

$64 = q^2$

$q =$ ____ or ____

Solve for r.

$49 = r^2$

$r =$ ____ or ____

Solve for q.

$16 = q^2$

$q =$ ____ or ____

Solve for g.

$g^2 = 121$

$g =$ ____ or ____

Positive and Negative Square Roots

What is the positive square root of 1?

____

What is the positive square root of 36?

____

What is the negative square root of 4?

____

What is $-\sqrt{1}$?

____

What is $\sqrt{64}$?

____

What is $-\sqrt{25}$?

____

What is $-\sqrt{3600}$?

____

What is $-\sqrt{196}$?

____

What is $\pm\sqrt{169}$?

[ ] or [ ]

What are the square roots of 900?

[ ] and [ ]

Estimating Square Roots

Not a perfect square? Answer will be an irrational number!

Determine which two squares that number is between.

Which two integers is $-\sqrt{132}$ between?

-12 and -11 | -11 and -10 | 10 and 11 | 11 and 12

Which two integers is $\sqrt{117}$ between?

11 and 12 | 10 and 11 | 7 and 8 | 8 and 9

1
4
9
16
25
36
49
64
81
100
121
144

Complete the following statement. Use the integers that are closest to the number in the middle.

[ ] < $\sqrt{90}$ < [ ]

Complete the following statement. Use the integers that are closest to the number in the middle.

[ ] < $\sqrt{63}$ < [ ]

Complete the following statement. Use the integers that are closest to the number in the middle.

[ ] < $-\sqrt{116}$ < [ ]

Complete the following statement. Use the integers that are closest to the number in the middle.

[ ] < $-\sqrt{69}$ < [ ]

1
4
9
16
25
36
49
64
81
100
121
144

Which number is closest to $-\sqrt{117}$?

-10.8 | -11.4 | -11.2 | -9.7

Which number is closest to $\sqrt{98}$?

10.5 | 8.6 | 9.8 | 10.3

1
4
9
16
25
36
49
64
81
100
121
144

Which number is closest to $\sqrt{2}$?

2.5 | 1.4 | 0.6 | 1.6

Which number is closest to $-\sqrt{113}$?

-9.5 | -9.8 | -11.4 | -10.6

Which number is closest to $\sqrt{27}$?

5.9 | 5.8 | 6.5 | 5.1

1
4
9
16
25
36
49
64
81
100
121
144