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Quadratic Formula Worksheets

1) Solve for x :

$$x^2 - 5x - 6 = 0$$

2) Find the nature of roots using the quadratic formula

$$y^2 + \frac{3}{4}y = -\frac{5}{4}$$

3) Using the quadratic formula find the Discriminant;

$$z^2 + (z + 2)^2 = 290$$

4) Find the sum of the roots for the given quadratic equation:

$$q^2 = 2$$

5) If p and q are the roots of the given quadratic equation, find the value of $p - q$.

$$k^2 = 9k$$

6) Use the quadratic formula to find the roots of the given quadratic equation:

$$2k^2 + 1 = 2\sqrt{2}k$$

7) Daniel and Chloe, together have a collection of 45 coins. If both of them lost 5 coins each, the product of the coins they have now is 124. Find the number of coins they had to start with.



- 8) The altitude of a right angled triangle is 17 inches less than its base. If the hypotenuse is 25 inches, find the length of its base.
- 9) The sum of two numbers is 27 and product is 182. Find the numbers.
- 10) If the product of two successive integral multiples of 5 is 300, find the numbers.



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Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

| | |
|----|--|
| 1) | -1,6 |
| 2) | Roots are imaginary |
| 3) | 576 |
| 4) | 0 |
| 5) | 0 |
| 6) | $\frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}}$ |

| | |
|-----|-----------|
| 7) | 36,9 |
| 8) | 24 inches |
| 9) | 13,14 |
| 10) | 15,20 |

FUN FACT

1. If $D < 0$, roots are imaginary.
2. If $D = 0$, roots are real and equal.
3. For a quadratic equation of the form,

$$ax^2 + bx + c = 0$$

The roots using the Quadratic formula are given as:

$$x = \frac{-b \pm \sqrt{D}}{2a}$$

$$\Rightarrow x = \frac{-b + \sqrt{D}}{2a}, \frac{-b - \sqrt{D}}{2a}$$

