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Quadratic Word Problems Worksheets

- 1) The difference of squares of any two numbers is 363. If the square of the larger number is 4 times the square of the smaller number, find the difference between the two numbers.
- 2) Natalie gets pocket money from her mother and is planning to buy a dress for her annual day celebrations in school. Had she got \$10 more pocket money from her mom, the amount would have been 9 times the square of the money she has now. How much money does she have now?
- 3) Ryan drives his sports car for a distance of 63 miles and then travels a distance of 72 miles at an average speed of 6 miles/hour more than its original speed. If it takes 3 hours to complete the total journey, what is the original average speed of the car?
- 4) There is a natural number whose square when increased by 76 is 36 more than 8 times the number itself. Find the number.
- 5) If Tyler were 9 years younger than what he actually is, then the square of his age would have been 1 more than three times his actual age. What is his age now?
- 6) Find the sum of the roots for the quadratic equation $z^2 + (z + 2)^2 = 290$.
- 7) Find the value of k for which the quadratic equation $2x^2 - kx + 1 = 0$ has equal roots.

- 8) Evelyn is thinking of constructing a rectangular shaped swimming pool in the plot next to her house such that it is surrounded by grass as given in the figure below. The dimensions of the plot is $50 \text{ ft} \times 40 \text{ ft}$, and the area of the grass is 1184 ft^2 . Find the dimensions of the pool.



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in an interesting way,
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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) | 49 |
| 2) | $\frac{-23}{16}$ |
| 3) | 256 |
| 4) | 576 |
| 5) | 81 |
| 6) | $\frac{13 + \sqrt{153}}{2}, \frac{13 - \sqrt{153}}{2}$ |

| | |
|----|-----------|
| 7) | $-4, -10$ |
| 8) | $-8, 4$ |



FUN FACT

1. The general form of a quadratic equation is given as,
$$ax^2 + bx + c = 0$$
2. a, b, c are real numbers, where b and c can have any value but $a \neq 0$.
3. The degree of a quadratic polynomial is always 2.

