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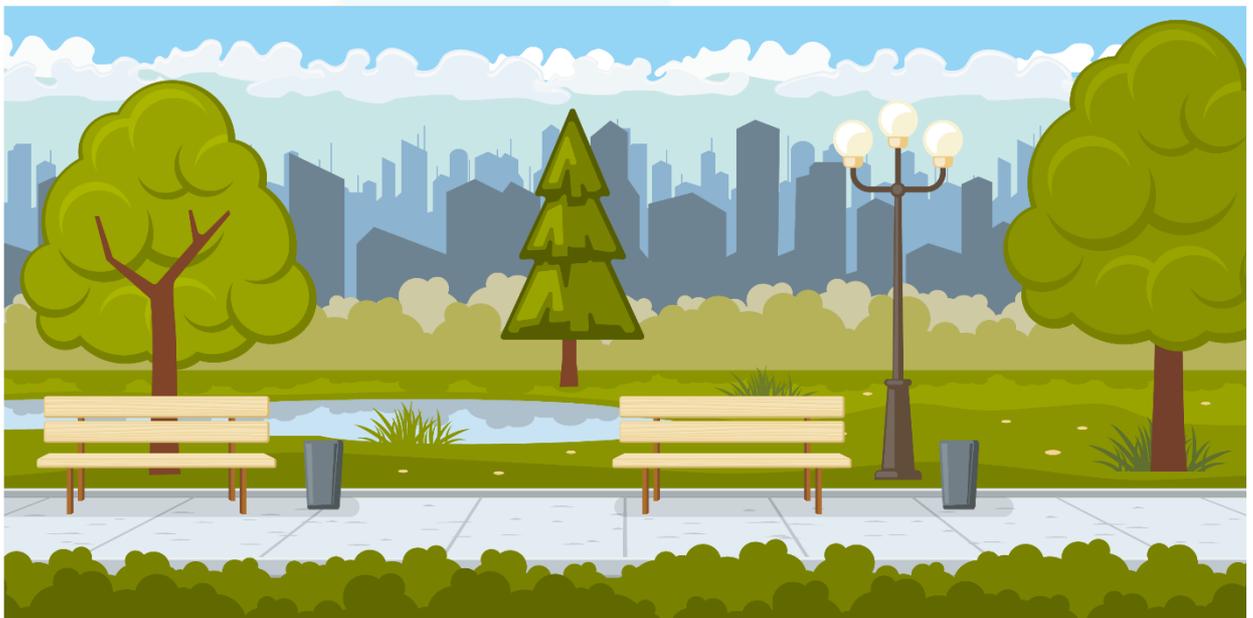
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FACTORING TRINOMIALS WORKSHEETS

- 1) Factor the trinomial $x^2 - 9x + 20$.
- 2) Factor the trinomial $x^2 + 11x + 28$.
- 3) Factor $2p^2 + 22p + 36$.
- 4) Is $x^2 + x + 1$ prime? Justify your answer.
- 5) Factor $5n^2 + 10n + 20$. Is it prime?
- 6) Solve $m^2 + 11m + 30 = 0$ by factoring.
- 7) The length of a park is 5 ft less than twice its width. Find the dimensions of the park if its area is 250 square feet.



- 8) Factor $3x^3 - 16x^2 + 5x$.
- 9) Factor $x^2 + 10xy + 16y^2$.

- 10) Can we help Amelia to answer the following?
If twice the difference of a number and 6 is equal to -2 times its square, then find the number(s).



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

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"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)	$(x - 4)(x - 5)$
2)	$(x + 7)(x + 4)$
3)	$2(x + 2)(x + 9)$
4)	Yes, as it cannot be factorized further
5)	$5(n^2 + 2n + 4)$; It is not prime as we could factorize it
6)	$m = -5; m = -6$
7)	12.5 ft x 20 ft
8)	$x(3x - 1)(x - 5)$
9)	$(x + 2y)(x + 8y)$
10)	-3, 2

FUN FACT

To factorize a trinomial (say $x^2 + 5x + 6$), we follow the steps below:

1. Multiply the coefficient of x^2 and the constant.
Here, $1(6) = 6$.
2. Identify the coefficient of x .
Here, it is 5.
3. Find two numbers whose product is 6 and whose sum is 5.
Two such numbers are 2 and 3.
4. Split the middle term (with x) using these two numbers and factor by grouping.

$$\begin{aligned}x^2 + 5x + 6 \\&= x^2 + 2x + 3x + 6 \\&= x(x + 2) + 3(x + 2) \\&= (x + 2)(x + 3)\end{aligned}$$

Note: A trinomial is said to be prime if it cannot be factorized further.

