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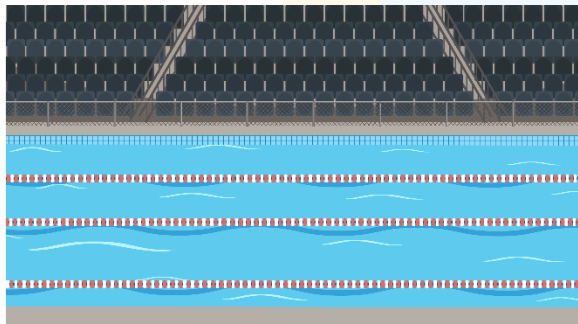
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FACTORING TRINOMIALS WORKSHEETS

- 1) Factor the trinomial $x^2 - x - 30$.
- 2) Factor the trinomial $x^2 + 22x + 121$.
- 3) Factor $2q^2 + 16q - 32$.
- 4) Is $2x^2 + 4x + 1$ prime? Justify your answer.
- 5) Factor $3r^2 - 16r + 5$. Is it prime?
- 6) Solve $15k^2 - 8k = -1$ by factoring.
- 7) The length of a rectangular swimming pool is 7 ft more than twice its width. Find the dimensions of the pool if its area is 270 square feet.



- 8) Factor $9x^3y + 29x^2y + 20xy$.
- 9) Factor $x^2 - 15xy + 36y^2$.
- 10) Can we help Jonathan solve this problem?
The sum of the squares of two consecutive numbers is 365.
Find the numbers”.



**When you learn math
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."

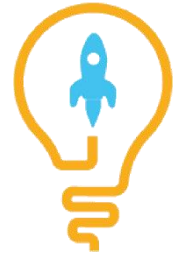
- Kirk Riley

"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)	$(x - 6)(x + 5)$
2)	$(x + 11)(x + 11)$ (or) $(x + 11)^2$
3)	$2(q^2 + 8q - 16)$ and it cannot be factorized further
4)	Yes, as it cannot be factorized further
5)	$(3r - 1)(r - 5)$; It is not prime as we could factorize it
6)	$k = \frac{1}{3}; k = \frac{1}{5}$
7)	27 ft x 10 ft
8)	$xy(x + 1)(9x + 20)$
9)	$(x - 3y)(x - 12y)$
10)	13 and 14

FUN FACT

1. Factorizing a trinomial is expressing it as the product of two or more expressions.
2. If a trinomial cannot be factorized, it is called prime.
3. To write a trinomial of the form $ax^2 + bx + c$ as the product of two binomials, we first find two numbers whose product is ac and whose sum is b , then split the middle term (bx) using those two numbers, and factor by grouping.

