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FACTORING TRINOMIALS WORKSHEETS

1) Factor the trinomial $y^2 + 6y + 5$.

2) Factor the trinomial $3x^2 + 21x + 30$.

3) Factor $12b^2 + 5b - 2$.

4) Is $6x^2 + 12x + 6$ prime? Justify your answer.

5) Factor $x^2 + 4x + 32$. Is it prime?

6) Solve $7k^2 - 14k - 21 = 0$ by factoring.

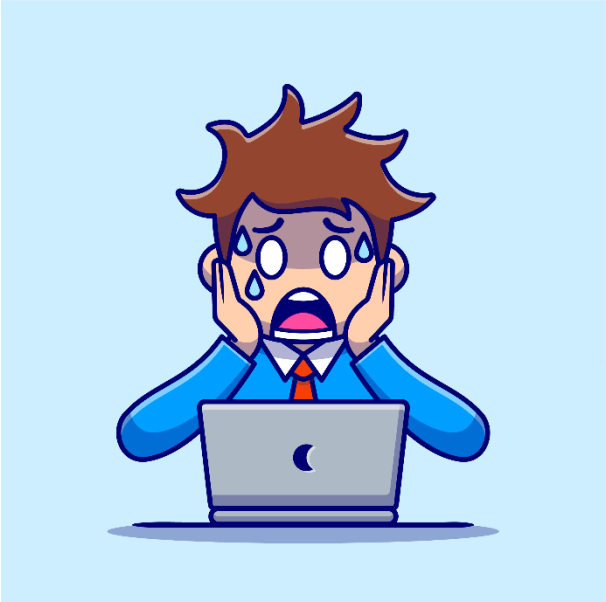
7) A rectangular gift box has a square base. The length of the base is 12 units more than its height. The volume of the box is 400 times its height. Find its dimensions.

8) Factor $x^4 - 10x^3 + 21x^2$.

9) Factor $24p^2 - 6pq - 9q^2$.

10) Mark is stuck with the following problem. Can we help him?

The product of two consecutive numbers is 156. Find the two numbers.



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- 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)	$(y+5)(y+1)$
2)	$3(x+2)(x+5)$
3)	(4b-1)(3b+2)
4)	No, as we can factorize $6x^2+12x+6$ as $6(x+1)^2$
5)	It cannot be factorized further. Hence, it is prime.
6)	$k=3; k=-1$
7)	20 units x 20 units x 8 units
8)	$x^2(x-3)(x-7)$
9)	$3(2p+q)(4p-3q)$
10)	12 and 13

FUN FACT

Here are some tips to factorize a trinomial:

1. Factor out the GCF if possible before factorizing the trinomial. For example, $2x^2y + 10xy + 12y = 2y(x^2 + 5x + 6)$.
2. To factorize a polynomial of the form $ax^2 + bx + c$, find two numbers whose product is ac and whose sum is b. Then split the middle term using these numbers, and then factor.
3. If a trinomial cannot be factorized further, it is said to be prime.