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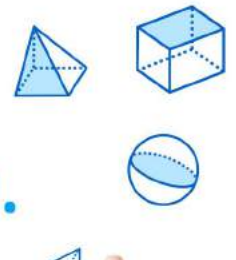

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FACTORING TRINOMIALS WORKSHEETS

1) Factor the trinomial $x^2 - x - 20$.

2) Factor the trinomial $x^2 + 12x + 32$.

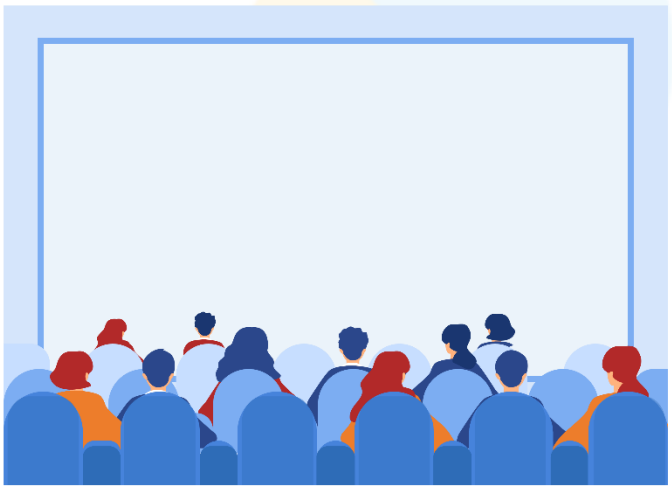
3) Factor $3p^2 + 8p + 4$.

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

5) Factor $6n^2 + 6n + 6$. Is it prime?

6) Solve $r^2 + 15r + 54 = 0$ by factoring.

7) The length of a theatre's screen is 7 ft more than twice its width. Find the dimensions of the screen if its area is 184 square feet.



8) Factor $2x^3 + 20x^2 + 32x$.

9) Factor $9p^2 + 12pq + 4q^2$.

10) Can we help Jim to answer the following?
If six times the sum of twice a number and 1 is equal to -6

times its square, then find the number(s).

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"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)	$(x-5)(x+4)$
2)	$(x+8)(x+4)$
3)	$(3p+2)(p+2)$
4)	Yes, as it cannot be factorized further
5)	$6\left(n^2+n+1\right)$; It is not prime as we could factorize it
6)	$r=-9; r=-6$
7)	23 ft x 8 ft
8)	$2x(x+2)(x+8)$
9)	$(3p+2q)^2$
10)	-1

FUN FACT

Here are some tips to factorize a trinomial:

1. Factor out any number if possible before factorizing the trinomial. For example,
   $2x^2 + 10x + 12 = 2(x^2 + 5x + 6)$.
2. If we cannot find two numbers whose product is ac and whose sum is b to factorize a trinomial $ax^2 + bx + c$, then the trinomial cannot be factorized further.
3. If a trinomial cannot be factorized further, it is said to be prime.