

Factor $6h^2 - h - 2$

1. Multiply the first and last terms.
 $(6h^2)(-2) = -12h^2$
2. Find the factors of $12h^2$ whose sum is h .
 $(-4h) + (3h) = -h$
3. Rewrite the trinomial as a four-term expression by replacing the middle term with the sum of the factors.
 $6h^2 - 4h - 3h - 2$
4. Group the terms with a common factor.
 $(6h^2 - 3h) + (-4h - 2)$
5. Factor the groups using greatest common monomial factor.
 $3h(2h - 1) - 2(2h - 1)$
6. Factor out the common binomial factor and write the remaining factor as a sum or difference of the common monomial factors.
 $(3h - 2)(2h - 1)$

Activity 13 **WE HAVE!**

Description: This game will help you practice your factoring skills through a game.
Instruction: Form a group with 5 members. Your task as a group is to factor the trinomial that the other group will give. Raise a flaglet and shout "We have it!" If you have already factored the trinomial. The first group to get 10 correct answers wins the game.



1. Do you find difficulty in playing the game? Why?
2. What hindered you from finding the factors of the trinomial?
3. What plan do you have to address these difficulties?

Let's extend!!

We can use factoring by grouping technique in finding the factors of a polynomial with more than three terms.

Let's try factoring $8mt - 12at - 10mh - 15ah$

- Solution:
1. Group the terms with a common factor.
 $(8mt - 12at) + (-10mh - 15ah)$
 2. Factor out the greatest common monomial factor in each group.
 $4t(2m - 3a) - 5h(2m - 3a) \rightarrow$ Why?
 3. Factor out the common binomial factor and write the remaining factor as a sum or difference of the common monomial factors.
 $(2m - 3a)(4t - 5h)$



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