

7th Grade
March 2, 2021

Today we will:

-watch video notes
on factoring
expressions

-begin HW



HOMEWORK:

Homework Practice WS

ALEKS assignment:
60 min and 5 topics
due Monday by 11:59pm



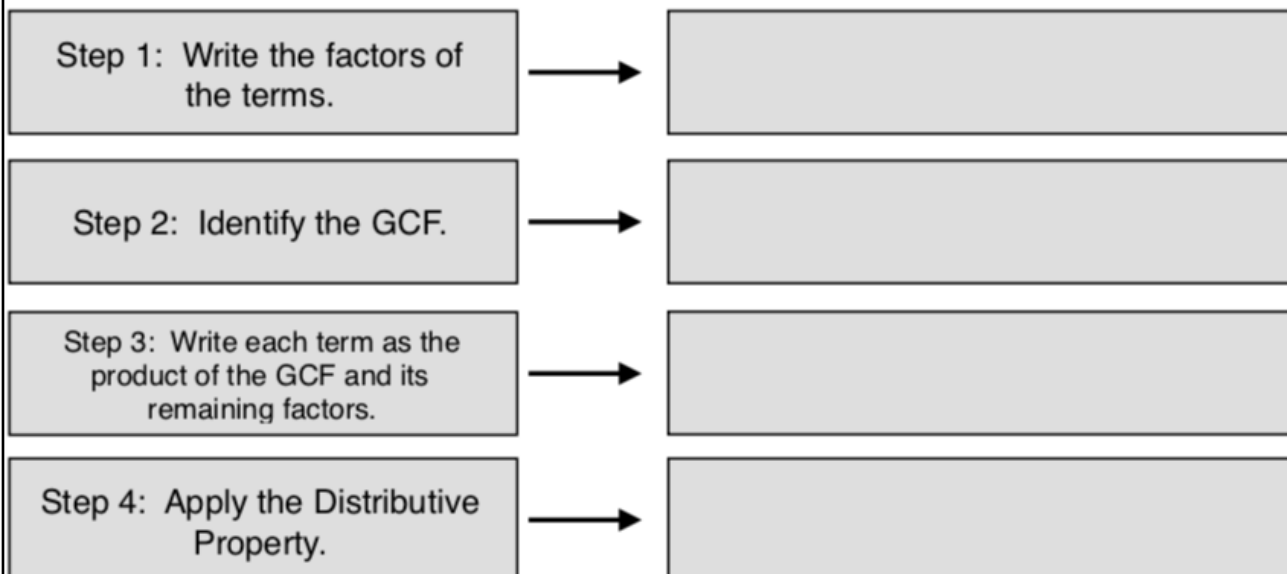
UNIT 1

LESSON 5

VIDEO NOTES

“ Factoring an expression”
means we write the expression as a
product of its factors.

Use the steps to factor $15x + 10$.



More Examples: Factor each expression.

You can use a factor tree or list factors here:

$$36x + 24 =$$

$$6 + 3x =$$

$$4x + 9 =$$

$$12 + 18x = 6 (\underline{\quad} + \underline{\quad})$$

$$24 + 32x = 8 (\underline{\quad} + \underline{\quad})$$

Word Problems:

The area of a high school basketball court is $(50x-300)$ square feet. Factor $50x-300$ to find possible dimensions of the basketball court.

Jesse wants to put down \$100 toward a new computer and will pay it off in six months. If y is the monthly payment, what expression represents the total price?

$$100 + \underline{6y}$$

$$\overset{\sim}{\underset{\sim}{6 \cdot y}}$$

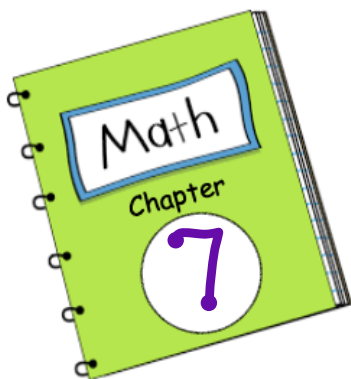
The Reyes family has saved \$480 as a down payment for a new TV. If x is the monthly payment for one year, what expression represents the goal cost of the television?

$$480 + \underline{12x}$$

$$\overset{\sim}{\underset{\sim}{12 = 12}}$$

Factor this expression.

$$= 12 (\underline{\quad} + \underline{\quad})$$



TITLE: Linear Expressions



Date	Lesson	Topic/Assignment
Feb 8	1	Distributive Property Video Notes
Feb 9	1	HOMEWORK: pg 295
Feb 10	2	Simplifying Algebraic Expressions Video Notes
Feb 11	2	HOMEWORK: HW Practice WS
Feb 12	2	More Notes and Examples
Feb 17	2	Practice WS
Feb 19	3	Adding Expressions Video Notes
Feb 19	3	HW Practice WS 8Qs
Feb 22	3	CLASSWORK: Matching Activity
Feb 23	4	Subtracting Expressions Video Notes
Feb 23	4	HOMEWORK: Skills Practice WS
Feb 24	4	CLASSWORK: HW Practice WS
Feb 26	4	HOMEWORK: Extra Practice WS
Feb 26	4	CLASSWORK: QR Code Scavenger Hunt
March 2	5	Factoring Expressions Video Notes
March 3	5	HOMEWORK: HW Practice WS
March 4	5	CLASSWORK: Color-by-Answer WS
March 5	ALL	Unit 7 Study Guide



Lesson 5 Homework Practice

Factoring Linear Expressions

Find the GCF of each pair of monomials.

1. $20, 45x$

2. $15r, 25$

3. $8xy, 14x$

4. $30w, 70w$

5. $4st, 12s$

6. $11gh, 33g$

11g

7. $16mn, 24m$

8. $25f, 60g$

9. $33c, 55cd$

10. $50j, 75jk$

11. $27cd, 72cde$

12. $48t, 60st$

Factor each expression. If the expression cannot be factored, write *cannot be factored*. Use algebra tiles if needed.

13. $4x + 12$

4 (_ + _)

14. $8r - 14$

15. $5x + 35$

16. $7 + 14x$

17. $32x - 15$

18. $24 + 32x$

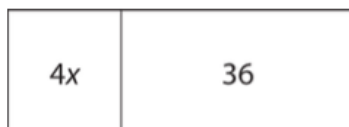
19. $6x - 9$

20. $48 + 24x$

21. $72 - 18x$

22. $25x + 14$

23. The rectangle shown below has a total area of $(4x + 36)$ square feet. Factor $4x + 36$.



24. The Art Club receives \$10 plus \$2 for every sculpture they sell for a fundraiser. The expression $2x + 10$ represents the amount the Art Club receives if they sell x sculptures. Factor $2x + 10$.

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