

Name: _____

Period: _____

Score: / = % =

HW 3-4

Int 1

Greatest Common Factor (GCF) & Intro. To Factoring

Unit 1

Find the greatest common factor (GCF).

1. 24, 48 GCF = _____

6. 12m, 48

GCF = _____

2. 3, 21 GCF = _____

7. 35, 5kh

GCF = _____

3. 14, 18 GCF = _____

8. 13y, 29w

GCF = _____

4. 16, 8, 24 GCF = _____

9. 11h, 44m, 33y

GCF = _____

5. 30, 45, 15 GCF = _____

10. 16, 4k, 28

GCF = _____

Factor the expressions completely.

11. $12h + 24y$

12. $18 - 6x - 12$

13. $5 - 20y$

14. $70mw + 30 + 20y$

15. $60hf - 15$

16. $14x - 7y - 35z$

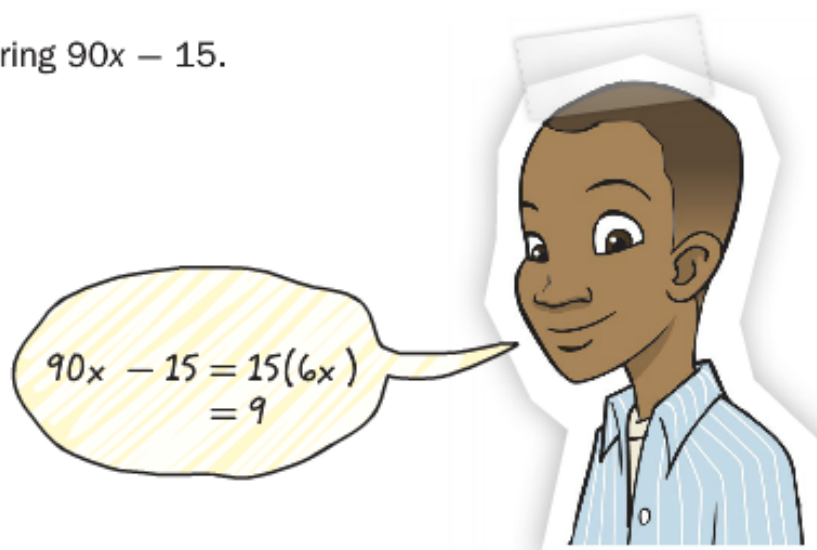
15. Which of the following expressions cannot be factored?

- a. $6 + 3x$
- b. $7x + 3$
- c. $15x + 10$
- d. $30x + 40$

16. Which of the following has a GCF of 4?

- a. $16a, 8$
- b. $18, 8a$
- c. $16a, 10$
- d. $16b, 20a$

17.  **Find the Error** Jamar is factoring $90x - 15$. Find his mistake and correct it.



$$90x - 15 = 15(6x)$$
$$= 9$$



Factor the expressions completely.

18. $8r - 14$

19. $24 + 32m$

20. $100x + 150$

21. $32 - 15y$

22. $72n - 18$

23. $9 + 63w$

Name the algebraic property that is shown in each of the following expressions.

24. $6 + 8 + 3 = 3 + 6 + 8$ _____

25. $74 \cdot 1 = 74$ _____

26. $7(3 \cdot 4) = (7 \cdot 3)4$ _____

27. $543 \cdot 0 = 0$ _____

28. $639 + 0 = 639$ _____