

Name: _____

Period: _____

SCORE: / = % =

HW 3-5

Int 1

More Practice with Factoring

Unit 1

Find the greatest common factor (GCF).

1. ym, mg GCF = _____ 4. 12m, 16h GCF = _____

2. rw, hrw GCF = _____ 5. 33m, 11hm, 44m GCF = _____

3. gh, f, ks GCF = _____ 6. 13ky, 29y GCF = _____

Factor the expressions completely.

7. $16hy + 30y$ GCF _____
Factored expression _____

8. $21x - 14xn - 42xk$ GCF _____
Factored expression _____

9. $15n - 30y$ GCF _____
Factored expression _____

10. $6h - 12hk + 3h$ GCF _____
Factored expression _____

11. $40hkn - 8hk$ GCF _____
Factored expression _____

12. $n - 7hn + 35kn$ GCF _____
Factored expression _____

13. $-35hg + 25$ GCF _____
Factored expression _____

14. Which of the following expressions cannot be factored?

- a. $18mn - 13mn$
- b. $15mn - 30$
- c. $12mn - 11$
- d. $24mn - 30n$

15. Which of the following has a GCF of $8n$?

- a. $32n, 14$
- b. $4n, 2n$
- c. $24n, 8$
- d. $16n, 24n$

16. **Find the error.** Emily factored the following expression $18h - 12gh$.

Her answer is $6(2h - 3gh)$

Her answer is NOT the correct answer.

Explain why this answer is wrong AND correctly factor the problem.

Use the **distributive property** to simplify each of the following expressions.

17. $5(4y - 3) - 6y =$ _____

18. $-11(2m + 4y) =$ _____

19. $6h(g - 5) =$ _____

20. $-(4k + 3y) =$ _____

21. $-8(y - 11h) + 3y =$ _____

Simplify the following expressions.

22. $7 - 15$

26. $7x - 6 + 3x$

23. $5(-3)$

27. $9 - 5y - 3y + 3$

24. $-18 - 9$

28. $8g + 5y - 2$

25. $-9 + 12 - 5$

29. $8y^2 - 3y + 4y^2$