

Name:

Period:

HW 3-5

Int 1

More Practice with Factoring

Unit 3

Factor the expressions completely.

1. $16hy + 30y$ GCF _____
Factored expression _____

2. $21x - 14xn - 42xk$ GCF _____
Factored expression _____

3. $15n - 30y$ GCF _____
Factored expression _____

4. $6h - 12hk + 3h$ GCF _____
Factored expression _____

5. $40hkn - 8hk$ GCF _____
Factored expression _____

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

7. $-35hg + 25$ GCF _____
Factored expression _____

8. Which of the following expressions cannot be factored?

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

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

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

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

10. $5(4y - 3) - 6y =$ _____

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

12. $6h(g - 5) =$ _____

13. $-(4k + 3y) =$ _____

14. $-8(y - 11h) + 3y =$ _____

Simplify the following expressions.

15. $7 - 15$

19. $7x - 6 + 3x$

16. $5(-3)$

20. $9 - 5y - 3y + 3$

17. $-18 - 9$

21. $8g + 5y - 2$

18. $-9 + 12 - 5$

22. $8y^2 - 3y + 4y^2$