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Period: _____

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HW 3-5

Int 1

More Practice with Factoring

Unit 3

Find the greatest common factor (GCF).

1. ym, mg GCF = m

4. 12m, 16h GCF = _____

2. rw, hrw GCF = _____

5. 33m, 11hm, 44m GCF = 11m

3. gh, f, ks GCF = 1

6. 13ky, 29y GCF = _____

Factor the expressions completely.

7. $16hy + 30y$ GCF 2y

Factored expression $2y(8h + 15)$

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

Factored expression _____

9. $15n - 30y$ GCF 15

Factored expression $15(n - 2y)$

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

Factored expression _____

11. $40hkn - 8hk$

GCF $8hk$

Factored expression $8hk(5n - 1)$

12. $n - 7hn + 35kn$

GCF _____

Factored expression _____

13. $-35hg + 25$

GCF 5

Factored expression $5(-7hg + 5)$

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. $5(4y - 3) - 6y = \underline{14y - 15}$

18. $-11(2m + 4y) = \underline{\hspace{2cm}}$

19. $6h(g - 5) = \underline{6hg - 30h}$

20. $-(4k + 3y) = \underline{\hspace{2cm}}$

21. $-8(y - 11h) + 3y = \underline{-5y + 88h}$

Simplify the following expressions.

22. $7 - 15$

26. $7x - 6 + 3x$

23. $5(-3) = \underline{-15}$

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

$\underline{-8y + 12}$

24. $-18 - 9$

28. $8g + 5y - 2$

25. $-9 + 12 - 5 = \underline{-2}$

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

$\underline{12y^2 - 3y}$