Name _____ Period____

3-5 More Practice with Factoring

Find the greatest common factor (GCF).

1. ym, mg GCF = m
2. jkm, k, kg GCF = _____
3. rw, hrw GCF = rw
4. kda, da, a GCF = _____
5. mn, nw GCF = n
6. 12m, 16mh GCF = _____
7. 9gk, 12k GCF = 3k
8. 13y, 39y GCF = _____
9. 11hm, 44m, 33 GCF = 11
10. 8hp, 16hp GCF = _____

Factor the expressions completely.

11. 16hy + 30y What is the GCF?

    2y

    2y(8h+15)

12. 21x – 14xn – 42xk What is the GCF?

    _____

13. 15n – 30y What is the GCF?

    15

    15(n-2y)

14. 5h – 12hk What is the GCF?

    _____

15. 40hf – 8hf What is the GCF?

    8hf

    8hf(5-1)

16. hn – 7hn + 35hn What is the GCF?

    _____

17. Which of the following expressions cannot be factored?

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

18. Which of the following has a GCF of 8n?

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

19. 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 solve the problem.

_____

_____

_____

_____

Factor the expressions completely.

20. 35hg + 25hg

5hg(7+5)

21. 12x – 16xf

22. 300m – 50mh – 200m

50m(6-h-4)

23. 60h + 15g

24. 42v + 7vx + 21x

7(6v + vx + 3x)

25. 24kf – 9kf

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

26. 5(4y – 3)

20y -15

27. -11(2m + 4y)

28. 6(g – 5)

6g-30

29. – (4k + 3y)

30. 8(y – 11h)

8y -88h