3-5 More Practice with Factoring

Find the greatest common factor (GCF).

5. mn, nw
$$GCF =$$

Factor the expressions completely.

11.
$$16\text{hy} + 30\text{y}$$
 What is the GCF?

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

13.
$$15n - 30y$$
 What is the GCF?

What is the GCF?

15.
$$40hf - 8hf$$
 What is the GCF?

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.
$$35hg + 25hg$$

21.
$$12x - 16xf$$

22.
$$300m - 50mh - 200m$$

23.
$$60h + 15g$$

24.
$$42v + 7vx + 21x$$
 25. $24kf - 9kf$

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

26.
$$5(4y-3)$$

27.
$$-11(2m + 4y)$$

28.
$$6(g-5)$$

29.
$$-(4k + 3y)$$

30.
$$8(y-11h)$$

3-5 More Practice with Factoring

Find the greatest common factor (GCF).

1. ym, mg
$$GCF = \underline{m}$$

$$GCF = 4m$$

2. jkm, k, kg
$$GCF = _{\bf k}$$

$$GCF = __3k___$$

$$GCF = 11$$

5. mn, nw
$$GCF = \underline{\mathbf{n}}$$

Factor the expressions completely.

12.
$$21x - 14xn - 42xk$$
 What is the GCF? $7x(3-2n-6k)$

16.
$$hn - 7hn + 35hn$$
 What is the GCF?

 $hn(1 - 7 + 35)$

- 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.

Emily didn't factor out the "h" that is in common with both the terms in the parenthesis.

6h(2 - 3g) is the correct factoring.

Factor the expressions completely.

21.
$$12x - 16xf$$

 $4x(3 - 6f)$

22.
$$300m - 50mh - 200m$$

 $50m(6 - h - 4)$

23.
$$60h + 15g$$

 $15(4h + g)$

24.
$$42v + 7vx + 21x$$

 $7(6v + vx + 3x)$

25.
$$24kf - 9kf$$

 $3kf(8-3)$

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

26.
$$5(4y-3)$$

20y - 15

28.
$$6(g-5)$$

 $6g-30$

29.
$$-(4k + 3y)$$

 $-4k - 3y$
 $-4k + -3y$

30.
$$8(y - 11h)$$

 $8y - 88h$