

Name: Key

Period:

Score: / = % =

HW 3-4

Int 1

Greatest Common Factor (GCF) & Intro. To Factoring

Unit 1

Find the greatest common factor (GCF).

1. 24, 56 GCF = 8

5. 12m, 48

GCF = 12

2. 3, 21 GCF = _____

6. 35, 5kh

GCF = _____

3. 14, 18 GCF = 2

7. 13y, 29w

GCF = 1

4. 30, 45, 15 GCF = _____

8. 11h, 44m, 33y

GCF = _____

Factor the expressions completely.

9. $12h + 24y$

GCF 12

Factored expression $12(h + 2y)$

10. $18 - 6x - 12$

GCF _____

Factored expression _____

11. $5 - 20y$

GCF 5

Factored expression $5(1 - 4y)$

12. $70mw + 30 + 20y$ GCF 10
Factored expression $10(7mw + 3 + 2y)$

13. $60hf - 15$ GCF _____
Factored expression _____

14. $14x - 7y - 35z$ GCF 7
Factored expression $7(2x - y - 5z)$

15. Which of the following expressions cannot be factored?

- a. $6 + 3x$
- b. $7x + 3$
- c. $15x + 10$
- d. $30x + 40$

16. Which of the following has a GCF of $4a$?

- a. $16a, 8$
- b. $18, 8a$
- c. $16a, 10$
- d. $16ab, 20a$

17.

CCSS Find the Error Jamar is factoring $90x - 15$.
Find his mistake and correct it.

$$90x - 15 = 15(6x) \\ = 9$$



Factor the expressions completely.

15. $8r - 14$

GCF 2
Factored expression $2(4r - 7)$

16. $24 + 32m$

GCF _____
Factored expression _____

17. $100x + 150$

GCF 50
Factored expression $50(2x + 3)$

18. $32 - 15y$

GCF _____
Factored expression _____

19. $72n - 18$

GCF 18
Factored expression $18(4n - 1)$

20. $9 + 63w$

GCF _____
Factored expression _____

21. $5\frac{2}{7} - 3\frac{4}{7} = \frac{15}{7}$
 $\frac{12}{7}$

22. $2\frac{1}{3} \left(-4\frac{2}{5} \right) =$

23. When we change this fraction $\frac{5}{7}$ to a decimal does it terminate or repeat?

repeat

24. Evaluate the expression $2y - x$, when $y = 3$ and $x = -6$.

25. Evaluate the expression hmk , when $h = -2$, $m = 7$ and $k = -3$.

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