

Math 6 - Unit 3: Expressions*Multiplying Using the Distributive Property*

Name: _____

Class Period: 1 2 3 4 Date: _____

Use the distributive property to solve the following problems. Be sure to show all your work.

1. $11(14)$

2. $12(54)$

3. $6(45)$

4. $6(512)$

5. $7(63)$

6. $13(22)$

Use the Distributive Property to rewrite each algebraic expression.

7. $8(5m + x)$

8. $6(2 + 9y)$

9. $3(4 + 9b)$

10. $4(6g + 11)$

11. $4(11 + 12g)$

12. $2.3(x + 5)$

13. $1.5(2x + 8)$

14. $2(6n + t)$

15. $15.4(3n + 17)$

16. $9(5 + 2x)$

17. $2(2.2x + 1.3)$

18. $10(2y + 80)$

19. $5(6 + 11m)$

20. $12(11a + 15x)$

21. $3.2(3.2x + 1)$

22. $5(3r + c)$

23. $11(5 + 11f)$

24. $4.0(3.0u + 10)$

Math 6 - Unit 3: Expressions

Factoring with the Distributive Property

Name: _____

Class Period: 1 2 3 4 Date: _____

Use the distributive property and the greatest common factor to factor the following problems. Be sure to show all your work.

1. $55v + 77$

2. $27y + 90$

3. $63u + 28$

4. $50 + 90n$

5. $35 + 55m$

6. $36w + 40$

7. $32 + 20n$

8. $48g + 54$

9. $72 + 40u$

10. $16y + 16$

11. $45 + 54b$

12. $44 + 36y$

13. $6y + 27$

14. $15 + 12c$

15. $66u + 21$

16. $44 + 36q$

17. $77r + 33$

18. $99p + 121$

19. $54 + 48w$

20. $54x + 99$

21. $30 + 72b$

22. $40 + 55x$

23. $45 + 72d$

24. $12 + 21p$

Math 6 - Unit 3: Expressions

Multiplying Using the Distributive Property

ANSWER KEY (ALL)

Name: _____

Class Period: 1 2 3 4 Date: _____

Use the distributive property to solve the following problems. Be sure to show all your work.

1. $11(14)$

$$11(10 + 4) = 110 + 44 = 154$$

2. $12(54)$

$$12(50 + 4) = 600 + 48 = 648$$

3. $6(45)$

$$6(40 + 5) = 240 + 30 = 270$$

4. $6(512)$

$$6(500 + 10 + 2) = 3000 + 60 + 12 = 3072$$

5. $7(63)$

$$7(60 + 3) = 420 + 21 = 441$$

6. $13(22)$

$$13(20 + 2) = 260 + 26 = 286$$

Use the Distributive Property to rewrite each algebraic expression.

7. $8(5m + x)$

$$40m + 8x$$

8. $6(2 + 9y)$

$$12 + 54y$$

9. $3(4 + 9b)$

$$12 + 27b$$

10. $4(6g + 11)$

$$24g + 44$$

11. $4(11 + 12g)$

$$44 + 48g$$

12. $2.3(x + 5)$

$$2.3x + 11.5$$

13. $1.5(2x + 8)$

$$3x + 12$$

14. $2(6n + t)$

$$12n + 2t$$

15. $15.4(3n + 17)$

$$46.2n + 261.8$$

16. $9(5 + 2x)$

$$45 + 18x$$

17. $2(2.2x + 1.3)$

$$4.4x + 2.6$$

18. $10(2y + 80)$

$$20y + 800$$

19. $5(6 + 11m)$

$$30 + 55m$$

20. $12(11a + 15x)$

$$132a + 180x$$

21. $3.2(3.2x + 1)$

$$10.24x + 3.2$$

22. $5(3r + c)$

$$15r + 5c$$

23. $11(5 + 11f)$

$$55 + 121f$$

24. $4.0(3.0u + 10)$

$$12u + 40$$

Math 6 - Unit 3: Expressions

Factoring with the Distributive Property

ANSWER KEY

Name: _____

Class Period: 1 2 3 4 Date: _____

Use the distributive property and the greatest common factor to factor the following problems. Be sure to show all your work.

1. $55v + 77$ **$11(5v + 7)$**

2. $27y + 90$ **$9(3y + 10)$**

3. $63u + 28$ **$7(9u + 4)$**

4. $50 + 90n$ **$10(5 + 9n)$**

5. $35 + 55m$ **$5(7 + 11m)$**

6. $36w + 40$ **$4(9w + 10)$**

7. $32 + 20n$ **$4(8 + 5n)$**

8. $48g + 54$ **$6(8g + 9)$**

9. $72 + 40u$ **$8(9 + 5u)$**

10. $16y + 16$ **$16(y + 1)$**

11. $45 + 54b$ **$9(5 + 6b)$**

12. $44 + 36y$ **$4(11 + 9y)$**

13. $6y + 27$ **$3(2y + 9)$**

14. $15 + 12c$ **$3(5 + 4c)$**

15. $66u + 21$ **$3(22u + 7)$**

16. $44 + 36q$ **$4(11 + 9q)$**

17. $77r + 33$ **$11(7r + 3)$**

18. $99p + 121$ **$11(9p + 11)$**

19. $54 + 48w$ **$6(9 + 8w)$**

20. $54x + 99$ **$9(6x + 11)$**

21. $30 + 72b$ **$6(5 + 12b)$**

22. $40 + 55x$ **$5(8 + 11x)$**

23. $45 + 72d$ **$9(5 + 8d)$**

24. $12 + 21p$ **$3(4 + 7p)$**