

End Topic 2 Review Worksheet

Name _____

Period _____

1. Find the Greatest Common Factor of 24 and 60.

2. Find the Greatest Common Factor of 34 and 51.

3. Use a factor tree to find the prime factorization of 48. Write your expression using exponents.

4. Use a factor tree to find the prime factorization of 72. Write your expression using exponents.

6. Find the Least Common Multiple of 9 and 15.

Match each of the equations to the properties listed to the right. If the equation does not match a property, select NOT A PROPERTY.

_____ 1. $4 \bullet 1 = 4$

_____ 2. $5 + 4 = 4 + 5$

_____ 3. $0 + 185 = 185$

_____ 4. $(3 \bullet 5) \bullet 7 = 3 \bullet (5 \bullet 7)$

_____ 5. $4(4 - 1) = 4(3) - 3(1)$

_____ 6. $x \bullet 0 = 0$

_____ 7. $4 \bullet (6 + 3) = (4 + 6) \bullet 3$

_____ 8. $ab \bullet 1 = ab$

_____ 9. $abc = bca$

_____ 10. $3(3x + 10) = 9x + 30$

_____ 11. $8 \bullet 0 = 0$

_____ 12. $3 + (7 + 10) = (3 + 7) + 10$

_____ 13. $5 \bullet (9 \bullet 2) = (2 \bullet 5) \bullet 9$

_____ 14. $7(x - 5) = (7 - x)(7 - 5)$

A. Identity Property of Addition

B. Identity Property of Multiplication

C. Zero Property of Multiplication

D. Commutative Property

E. Associative Property

F. Distributive Property

G. NOT A PROPERTY

1. Find the Greatest Common Factor of 24 and 60.

24: 1, 2, 3, 4, 6, 8, (12), 24

60: 1, 2, 3, 4, 5, 6, 10, (12), 15, 20, 30, 60

GCF: 12

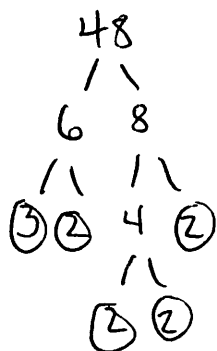
2. Find the Greatest Common Factor of 34 and 51.

34: 1, 2, (17), 34

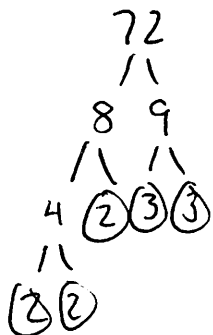
51: 1, 3, (17), 51

GCF: 17

3. Use a factor tree to find the prime factorization of 48. Write your expression using exponents.

 $3 \cdot 2^4$

4. Use a factor tree to find the prime factorization of 72. Write your expression using exponents.

 $3^2 \cdot 2^3$

6. Find the Least Common Multiple of 9 and 15.

9: 9, 18, 27, 36, (45), 54, 63

15: 15, 30, (45), 60

LCM: 45

Match each of the equations to the properties listed to the right. If the equation does not match a property, select NOT A PROPERTY.

B 1. $4 \bullet 1 = 4$

D 2. $5 + 4 = 4 + 5$

A 3. $0 + 185 = 185$

E 4. $(3 \bullet 5) \bullet 7 = 3 \bullet (5 \bullet 7)$

F 5. $4(4 - 1) = 4(3) - 3(1)$

C 6. $x \bullet 0 = 0$

G 7. $4 \bullet (6 + 3) = (4 + 6) \bullet 3$

B 8. $ab \bullet 1 = ab$

D 9. $abc = bca$

F 10. $3(3x + 10) = 9x + 30$

C 11. $8 \bullet 0 = 0$

E 12. $3 + (7 + 10) = (3 + 7) + 10$

G 13. $5 \bullet (9 \bullet 2) = (2 \bullet 5) \bullet 9$

G 14. $7(x - 5) = (7 - x)(7 - 5)$

A. Identity Property of Addition

B. Identity Property of Multiplication

C. Zero Property of Multiplication

D. Commutative Property

E. Associative Property

F. Distributive Property

G. NOT A PROPERTY