



Finding Distributive Property of Multiplication

Name: _____

Answers

Determine which choice best shows the distributive property of multiplication.

- | | |
|--|--|
| 1) A. $10 \times 6 = 6 \times 10$
B. $10 \times (6 \times 8) = (10 \times 6) \times 8$
C. $10 \times (6 + 8) = (10 \times 6) + (10 \times 8)$
D. $1 \times 10 = 10$ | 2) A. $9 \times 5 = 5 \times 9$
B. $9 \times 1 = 9$
C. $(9 \times 5) \times 7 = 9 \times (5 \times 7)$
D. $(9 \times 5) + (9 \times 7) = 9 \times (5 + 7)$ |
| 3) A. $5 \times 0 = 0 \times 5$
B. $5 \times (0 \times 6) = (5 \times 0) \times 6$
C. $5 \times (0 + 6) = (5 \times 0) + (5 \times 6)$
D. $1 \times 5 = 5$ | 4) A. $2 \times 6 = 6 \times 2$
B. $2 \times 1 = 2$
C. $(2 \times 6) + (2 \times 0) = 2 \times (6 + 0)$
D. $(2 \times 6) \times 0 = 2 \times (6 \times 0)$ |
| 5) A. $1 \times 8 = 8$
B. $8 \times (10 + 3) = (8 \times 10) + (8 \times 3)$
C. $8 \times (10 \times 3) = (8 \times 10) \times 3$
D. $8 \times 10 = 10 \times 8$ | 6) A. $5 \times (1 + 4) = (5 \times 1) + (5 \times 4)$
B. $5 \times 1 = 1 \times 5$
C. $1 \times 5 = 5$
D. $5 \times (1 \times 4) = (5 \times 1) \times 4$ |
| 7) A. $1 \times 2 = 2$
B. $2 \times (9 \times 3) = (2 \times 9) \times 3$
C. $2 \times 9 = 9 \times 2$
D. $2 \times (9 + 3) = (2 \times 9) + (2 \times 3)$ | 8) A. $5 \times 1 = 5$
B. $(5 \times 10) \times 3 = 5 \times (10 \times 3)$
C. $5 \times 10 = 10 \times 5$
D. $(5 \times 10) + (5 \times 3) = 5 \times (10 + 3)$ |
| 9) A. $6 \times 10 = 10 \times 6$
B. $(6 \times 10) + (6 \times 7) = 6 \times (10 + 7)$
C. $6 \times 1 = 6$
D. $(6 \times 10) \times 7 = 6 \times (10 \times 7)$ | 10) A. $3 \times (8 + 7) = (3 \times 8) + (3 \times 7)$
B. $3 \times (8 \times 7) = (3 \times 8) \times 7$
C. $3 \times 8 = 8 \times 3$
D. $1 \times 3 = 3$ |
| 11) A. $1 \times 5 = 5$
B. $5 \times (2 + 8) = (5 \times 2) + (5 \times 8)$
C. $5 \times (2 \times 8) = (5 \times 2) \times 8$
D. $5 \times 2 = 2 \times 5$ | 12) A. $(1 \times 10) \times 2 = 1 \times (10 \times 2)$
B. $1 \times 1 = 1$
C. $1 \times 10 = 10 \times 1$
D. $(1 \times 10) + (1 \times 2) = 1 \times (10 + 2)$ |

Answers

1. C
2. D
3. C
4. C
5. B
6. A
7. D
8. D
9. B
10. A
11. B
12. D



Applying Properties of Operations

Name: _____

Answers

Apply the distributive property to produce an equivalent expression.

- | | |
|---|----------------------------------|
| 1) $21v + 24$
$\textcircled{1} 21v + 24$ $1 \cdot 21$ $1 \cdot 24$ | 1. <u>$3(7v+8)$</u> |
| 2) $14 + 20t$
$\textcircled{3} 7$ $2 \cdot 12$ $2 \cdot 12$
$\textcircled{3} 7$ $3 \cdot 8$ $3 \cdot 8$
$3(7v+8)$ $4 \cdot 6$ | 2. <u>$2(7+10t)$</u> |
| 3) $32w + 20$
$3(7v+8)$ | 3. <u>$4(8w+5)$</u> |
| 4) $e + e + e$ | 4. <u>$3e$</u> |
| 5) $4h + 8$
$\textcircled{2} 14 + 20t$ $1 \cdot 14$ $1 \cdot 20$
$\textcircled{2} 7$ $2 \cdot 10$ $2 \cdot 10$
$\textcircled{2} 7$ $4 \cdot 5$ | 5. <u>$4(h+2)$</u> |
| 6) $8(6f + 4)$
$\textcircled{2} 7$ $2 \cdot 7$ $2 \cdot 10t$
$\textcircled{2} 7$ $2(7+10t)$ | 6. <u>$48f + 32$</u> |
| 7) $40p + 50$
$2(7+10t)$ | 7. <u>$10(4p+5)$</u> |
| 8) $8(4k + 6)$ | 8. <u>$32k + 48$</u> |
| 9) $8(4 + 9a)$
$\textcircled{3} 32w + 20$ $1 \cdot 32$ | 9. <u>$32 + 72a$</u> |
| 10) $g + g + g + g + g + g + g + g + g + g$
$\textcircled{4} 8w + 5$ $2 \cdot 16$ $4 \cdot 5$
$\textcircled{4} 8$ $4 \cdot 8$ | 10. <u>$9g$</u> |
| 11) $30 + 30j$
$4(8w+5)$ | 11. <u>$30(1+j)$</u> |
| 12) $20 + 30n$ | 12. <u>$10(2+3n)$</u> |
| 13) $80 + 72s$ | 13. <u>$8(10+9s)$</u> |
| 14) $9(4 + 3y)$
$\textcircled{5} 4h + 8$ | 14. <u>$36 + 27y$</u> |
| 15) $4(5d + 4)$
$\textcircled{5} 4h + 8$
$(4 \cdot h) + (2 \cdot 2)$ | 15. <u>$20d + 16$</u> |
| 16) $4(4 + 8m)$
$4(h \cdot 2)$ | 16. <u>$16 + 32m$</u> |
| 17) $63r + 63$ | 17. <u>$63(r+1)$</u> |
| 18) $2(2c + 6)$ | 18. <u>$4c + 12$</u> |
| 19) $8 + 12u$ | 19. <u>$4(2+3u)$</u> |
| 20) $30z + 40$ | 20. <u>$10(3z+4)$</u> |

Answers

1. $3(7v+8)$
2. $2(7+10t)$
3. $4(8w+5)$
4. $3e$
5. $4(h+2)$
6. $48f + 32$
7. $10(4p+5)$
8. $32k + 48$
9. $32 + 72a$
10. $9g$
11. $30(1+j)$
12. $10(2+3n)$
13. $8(10+9s)$
14. $36 + 27y$
15. $20d + 16$
16. $16 + 32m$
17. $63(r+1)$
18. $4c + 12$
19. $4(2+3u)$
20. $10(3z+4)$

Answers



7th Grade - Properties of Math Work/Study Sheet

(Show your work! 😊)

Commutative:

$a \times b = b \times a$

The order of factors may change but the product remains the same.

Example:

$6 \times 13 = 13 \times 6$
 $78 = 78$

$8 \times 7 = 7 \times 8$
 $56 = 56$

$9 \times 5 = 5 \times 9$
 $45 = 45$

$12 \times 8 = 8 \times 12$
 $96 = 96$

Associative:

$(a \times b) \times c = a \times (b \times c)$

The grouping of factors may change but the product remains the same.

Example:

$(7 \times 6) \times 5 = 7 \times (6 \times 5)$
 $42 \times 5 = 7 \times 42$
 $210 = 210$

$(3 \times 4) \times 9 = 3 \times (4 \times 9)$
 $12 \times 9 = 3 \times 36$
 $108 = 108$

$(6 \times 12) \times 9 = 6 \times (12 \times 9)$
 $72 \times 9 = 6 \times 108$
 $648 = 648$

$(8 \times 9) \times 3 = 8 \times (9 \times 3)$

$(2 \times 10) \times 7 = 2 \times (10 \times 7)$

$72 \times 3 = 8 \times 27$
 $216 = 216$

$20 \times 7 = 2 \times 70$
 $140 = 140$

Identity: Multiplicative Identity

$a \times 1 = a$ and $1 \times a = a$ 1 multiplied by any number equals the number.

Example:

$10 \times 1 = 10$

$1 \times 10 = 10$

$(1.) 5 \times 1 = 5$

$1 \times 5 = 5$

$(2.) 9 \times 1 = 9$

$1 \times 9 = 9$

Zero:

$a \times 0 = 0$ and $0 \times a = 0$ Zero multiplied by any number equals zero.

Example:

$10 \times 0 = 0$

$0 \times 10 = 0$

$(1.) 7 \times 0 = 0$

$0 \times 7 = 0$

$(2.) 20 \times 0 = 0$

$0 \times 20 = 0$



Identity Properties of Multiplication

Name: Answers

Determine which property of multiplication is shown (Associative, Identity, Distributive or Commutative).

- 1) $4 \times 1 = 4$
- 2) $(5 \times 7) \times 4 = 5 \times (7 \times 4)$
- 3) $10 \times 8 = 8 \times 10$
- 4) $6 \times 1 = 1 \times 6$
- 5) $4 \times (5 + 6) = (4 \times 5) + (4 \times 6)$
- 6) $6 \times (0 + 8) = (6 \times 0) + (6 \times 8)$
- 7) $(8 \times 3) \times 6 = 8 \times (3 \times 6)$
- 8) $7 \times (2 \times 3) = (7 \times 2) \times 3$
- 9) $8 \times 1 = 8$
- 10) $1 \times 1 = 1$
- 11) $9 \times 2 = 2 \times 9$
- 12) $2 \times 1 = 2$
- 13) $2 \times (3 \times 0) = (2 \times 3) \times 0$
- 14) $(1 \times 10) + (1 \times 3) = 1 \times (10 + 3)$
- 15) $(10 \times 3) + (10 \times 0) = 10 \times (3 + 0)$
- 16) $9 \times 1 = 1 \times 9$
- 17) $3 \times 1 = 3$
- 18) $5 \times 2 = 2 \times 5$
- 19) $1 \times (2 \times 4) = (1 \times 2) \times 4$
- 20) $(0 \times 3) + (0 \times 9) = 0 \times (3 + 9)$

Answers

1. Identity
2. Assoc.
3. Comm
4. Comm
5. Dist.
6. Dist.
7. Assoc.
8. Assoc.
9. Ident.
10. Ident.
11. Comm.
12. Ident
13. Assoc.
14. Dist.
15. Dist.
16. Comm.
17. Ident.
18. Comm.
19. Assoc
20. Dist.

Name : Answers Score : _____

Teacher : _____ Date : _____

Working with the Properties of Mathematics

- 1) Which Property of Multiplication is shown ? $(6 + 9) \times 5 = 6 \times 5 + 9 \times 5$ D
 A. Associative Property B. Commutative Property
 C. Identity Property D. Distributive Property
- 2) Which property of addition is used in the following ? $(7 + 9) + 4 = 7 + (9 + 4)$ D
 A. Identity Property B. Commutative Property
 C. Distributive Property D. Associative Property
- 3) Which of the following is an example of Commutative Property of Addition ? D
 A. $(9 + 8) + 3 = 9 + (8 + 3)$ B. $7 \times 1 = 7$
 C. $6 + 2 = 5 + 6$ D. $4 + 9 = 9 + 4$
- 4) Which of the following does not show the Commutative Property of Addition ? A
 A. $ab = ba$ B. $a + b = b + a$
 C. $3x + 4y = 4y + 3x$ D. $9 + x = x + 9$
- 5) Which operation will not change the value of any nonzero number ? C
 A. Multiplying by Zero B. Adding One
 C. Adding Zero D. Dividing by Zero
- 6) Which is an example of Associative Property of Addition ? A
 A. $(7 + 3) + 2 = 7 + (3 + 2)$ B. $8 + (-8) = 0$
 C. $9 + 7 = 7 + 9$ D. $6 + 0 = 6$
- 7) Which property would you use to simplify the following expression ? $4(y + 9)$ A
 A. Distributive Property B. Associative Property
 C. Multiplication Property of Zero D. Commutative Property
- 8) Which Property of Addition does $5 + 0 = 5$ illustrate ? B
 A. Commutative Property B. Identity Property
 C. Zero Property D. Distributive Property
- 9) Which property is used in the following expression ? $8(6 + 4) = 48 + 32$ D
 A. Associative Property of Multiplication B. Commutative Property of Addition
 C. Associative Property of Addition D. Distributive Property
- 10) The value of any nonzero number will be changed by _____ B
 A. multiplying by one B. multiplying by zero
 C. dividing by one D. adding zero

Name : Answers Score : _____

Teacher : _____ Date : _____

Working with the Properties of Mathematics

- 11) Which property is used in the following expression ? $(a \times b) \times c = a \times (b \times c)$ D
 A. Commutative Property of Addition B. Distributive Property
 C. Associative Property of Addition D. Associative Property of Multiplication
- 12) Which equation shows the Commutative Property of Multiplication ? D
 A. $8 \times 1 = 8$ B. $2 \times 3 = 2 + 2 + 2$
 C. $6 \times 7 - 9 \times 7 = (6 - 9) \times 2$ D. $4 \times 3 = 3 \times 4$
- 13) Which property is used in the following ? $8 \times (6 + 2) = 8 \times 6 + 8 \times 2$ C
 A. Associative Property B. None of the above
 C. Distributive Property D. Commutative Property
- 14) Which equation shows the Addition Property of Zero ? C
 A. $a \times 0 = 0$ B. $(a + b) + 8 = a + (8 + b)$
 C. $a + 0 = a$ D. $a(b + c) = ab + ac$
- 15) Which property is used in the following expression ? $(2 \times 7) \times 3 = 7 \times (3 \times 2)$ omit
 A. Associative Property of Addition B. Distributive Property of Multiplication
 C. Associative Property of Multiplication D. Commutative Property of Addition
- 16) Which equation shows the Multiplicative Inverse of a Number ? C
 A. $a + -a = 0$ B. $a \times 0 = 0$
 C. $a \times (1/a) = 1$ D. $a \times 1 = a$
- 17) Which operation will not change the value of any nonzero number ? B
 A. Dividing by Zero B. Multiplying by One
 C. Multiplying by Zero D. Adding One
- 18) Which equation shows the Zero Property of Multiplication ? B
 A. $8 \times 1 = 8$ B. $2 \times 0 = 0$
 C. $6 + 6 + 6 = 3 \times 6$ D. $3 \times 7 = 7 \times 3$
- 19) Which of the following does not show the Commutative Property ? C
 A. $6 + y = y + 6$ B. $x + y = y + x$
 C. $xy - 7 = xy$ D. $yx = xy$
- 20) Simplify this expression : $7(y + z)$ C
 A. $7y + z$ B. $7yz$
 C. $7y + 7z$ D. $7z + y$

Name : Answers Score : _____
 Teacher : _____ Date : _____

Working with the Properties of Mathematics

1) Which equation shows the Additive Inverse of a Number ?

- A. $a + a = 2a$ B. $a + -a = 0$
 C. $a \times 0 = 0$ D. $a + 0 = a$

2) Which is an example of Identity Property of Addition ?

- A. $6 + 4 = 4 + 6$ B. $7 \times 1 = 7$
 C. $9 + 0 = 9$ D. $(4 + 2) + 8 = 4 + (2 + 8)$

3) Which equation shows the Identity Property of Multiplication ?

- A. $a(b + c) = ab + ac$ B. $(a + b) + 8 = a + (8 + b)$
 C. $a \times 1$ D. $a + a + a = 3 \times a$

Omit

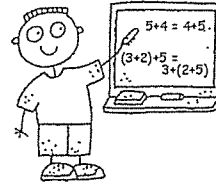
Do Examples for Knowledge

Properties of Addition Worksheet 1
 Commutative and associative properties
 Item 3001a

Name _____

Properties of Addition

Worksheet 1



The commutative property of addition is the rule which states that the order in which the numbers of an expression are combined does not affect the outcome.

Example: $3 + 5 = 5 + 3$

The associative property of addition is the rule which states that the grouping of numbers in an expression does not affect the outcome.

Example: $(3 + 5) + 7 = 3 + (5 + 7)$

Which equation shows the commutative property of addition?

- | | |
|--|---|
| 1. <input type="radio"/> $(3 + 4) + 3 = 3 + (4 + 3)$ | 2. <input checked="" type="radio"/> $9 + 4 = 4 + 9$ |
| <input checked="" type="radio"/> $7 + 3 = 3 + 7$ | <input type="radio"/> $9 + 4 = 13$ |
| <input type="radio"/> $7 + 3 = 10$ | <input type="radio"/> $13 = 9 + 4$ |
| <input type="radio"/> $10 = 7 + 3$ | <input type="radio"/> $(5 + 4) + 4 = 5 + (4 + 4)$ |
| 3. <input type="radio"/> $8 + 5 = 13$ | 4. <input checked="" type="radio"/> $8 = 6 + 2$ |
| <input type="radio"/> $13 = 8 + 5$ | <input type="radio"/> $(2 + 4) + 2 = 2 + (4 + 2)$ |
| <input type="radio"/> $(6 + 2) + 5 = 6 + (2 + 5)$ | <input type="radio"/> $6 + 2 = 2 + 6$ |
| <input checked="" type="radio"/> $8 + 5 = 5 + 8$ | <input type="radio"/> $6 + 2 = 8$ |

Which equation shows the associative property of addition?

- | | |
|--|---|
| 5. <input type="radio"/> $10 = 6 + 4$ | 6. <input checked="" type="radio"/> $(3 + 2) + 7 = 3 + (2 + 7)$ |
| <input checked="" type="radio"/> $(5 + 1) + 4 = 5 + (1 + 4)$ | <input type="radio"/> $5 + 7 = 7 + 5$ |
| <input type="radio"/> $6 + 4 = 4 + 6$ | <input type="radio"/> $5 + 7 = 12$ |
| <input type="radio"/> $6 + 4 = 10$ | <input type="radio"/> $12 = 5 + 7$ |
| 7. <input type="radio"/> $9 + 6 = 6 + 9$ | 8. <input checked="" type="radio"/> $8 + 3 = 11$ |
| <input type="radio"/> $9 + 6 = 15$ | <input type="radio"/> $11 = 8 + 3$ |
| <input type="radio"/> $15 = 9 + 6$ | <input type="radio"/> $(2 + 6) + 3 = 2 + (6 + 3)$ |
| <input checked="" type="radio"/> $(7 + 2) + 6 = 7 + (2 + 6)$ | <input type="radio"/> $8 + 3 = 3 + 8$ |



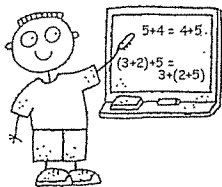
Even H's for Homework

Finding Commutative Property of Multiplication Name: _____

Name _____

Properties of Addition

Worksheet 2



The **commutative property of addition** is the rule which states that the order in which the numbers of an expression are combined does not affect the outcome.

Example: $3 + 5 = 5 + 3$

The **associative property of addition** is the rule which states that the grouping of numbers in an expression does not affect the outcome.

Example: $(3 + 5) + 7 = 3 + (5 + 7)$

Which equation shows the commutative property of addition?

- $(25 + 5) + 8 = 25 + (5 + 8)$
 $25 + 5 = 5 + 25$
 $25 + 5 = 30$
 $30 = 25 + 5$
- $14 + 9 = 23$
 $23 = 14 + 9$
 $(7 + 7) + 9 = 7 + (7 + 9)$
 $14 + 9 = 9 + 14$
- $32 = 15 + 17$
 $(9 + 6) + 17 = 9 + (6 + 17)$
 $15 + 17 = 17 + 15$
 $15 + 17 = 32$

Which equation shows the associative property of addition?

- $28 = 13 + 15$
 $(9 + 4) + 15 = 9 + (4 + 15)$
 $13 + 15 = 15 + 13$
 $13 + 15 = 28$
- $20 + 15 = 15 + 20$
 $20 + 15 = 35$
 $35 = 20 + 15$
 $(12 + 8) + 15 = 12 + (8 + 15)$
- $18 + 3 = 21$
 $21 = 18 + 3$
 $(4 + 14) + 3 = 4 + (14 + 3)$
 $18 + 3 = 3 + 18$

Determine which choice best shows the commutative property of multiplication.

- A. $1 \times 1 = 1$
 B. $1 \times 10 = 10 \times 1$
 C. $1 \times (10 \times 3) = (1 \times 10) \times 3$
 D. $1 \times (10 + 3) = (1 \times 10) + (1 \times 3)$
- A. $4 \times 8 = 8 \times 4$
 B. $4 \times (8 \times 9) = (4 \times 8) \times 9$
 C. $4 \times (8 + 9) = (4 \times 8) + (4 \times 9)$
 D. $1 \times 4 = 4$
- A. $(2 \times 10) \times 1 = 2 \times (10 \times 1)$
 B. $2 \times 1 = 2$
 C. $(2 \times 10) + (2 \times 1) = 2 \times (10 + 1)$
 D. $2 \times 10 = 10 \times 2$
- A. $(9 \times 7) + (9 \times 8) = 9 \times (7 + 8)$
 B. $9 \times 1 = 9$
 C. $(9 \times 7) \times 8 = 9 \times (7 \times 8)$
 D. $9 \times 7 = 7 \times 9$
- A. $(6 \times 9) \times 7 = 6 \times (9 \times 7)$
 B. $6 \times 9 = 9 \times 6$
 C. $(6 \times 9) + (6 \times 7) = 6 \times (9 + 7)$
 D. $6 \times 1 = 6$
- A. $0 \times 7 = 7 \times 0$
 B. $0 \times 1 = 0$
 C. $(0 \times 7) + (0 \times 3) = 0 \times (7 + 3)$
 D. $(0 \times 7) \times 3 = 0 \times (7 \times 3)$
- A. $8 \times 3 = 3 \times 8$
 B. $8 \times (3 + 10) = (8 \times 3) + (8 \times 10)$
 C. $1 \times 8 = 8$
 D. $8 \times (3 \times 10) = (8 \times 3) \times 10$
- A. $1 \times 1 = 1$
 B. $(1 \times 8) \times 7 = 1 \times (8 \times 7)$
 C. $(1 \times 8) + (1 \times 7) = 1 \times (8 + 7)$
 D. $1 \times 8 = 8 \times 1$
- A. $6 \times (4 + 10) = (6 \times 4) + (6 \times 10)$
 B. $6 \times 4 = 4 \times 6$
 C. $6 \times (4 \times 10) = (6 \times 4) \times 10$
 D. $1 \times 6 = 6$
- A. $1 \times (9 + 5) = (1 \times 9) + (1 \times 5)$
 B. $1 \times 9 = 9 \times 1$
 C. $1 \times (9 \times 5) = (1 \times 9) \times 5$
 D. $1 \times 1 = 1$
- A. $0 \times 4 = 4 \times 0$
 B. $0 \times (4 \times 7) = (0 \times 4) \times 7$
 C. $0 \times (4 + 7) = (0 \times 4) + (0 \times 7)$
 D. $1 \times 0 = 0$
- A. $1 \times (6 + 4) = (1 \times 6) + (1 \times 4)$
 B. $1 \times 6 = 6 \times 1$
 C. $1 \times 1 = 1$
 D. $1 \times (6 \times 4) = (1 \times 6) \times 4$

Answers

- B
-
- D
-
- B
-
- A
-
- B
-
- A
-

Even #'s Homework



Finding Commutative Property of Multiplication Name: _____

Determine which choice best shows the commutative property of multiplication.

- 1) A. $8 \times (9 + 0) = (8 \times 9) + (8 \times 0)$
 B. $1 \times 8 = 8$
 C. $8 \times (9 \times 0) = (8 \times 9) \times 0$
 D. $8 \times 9 = 9 \times 8$

- 2) A. $2 \times (8 \times 5) = (2 \times 8) \times 5$
 B. $1 \times 2 = 2$
 C. $2 \times 8 = 8 \times 2$
 D. $2 \times (8 + 5) = (2 \times 8) + (2 \times 5)$

- 3) A. $4 \times (8 + 5) = (4 \times 8) + (4 \times 5)$
 B. $4 \times (8 \times 5) = (4 \times 8) \times 5$
 C. $4 \times 8 = 8 \times 4$
 D. $1 \times 4 = 4$

- 4) A. $4 \times 1 = 1 \times 4$
 B. $(4 \times 1) + (4 \times 3) = 4 \times (1 + 3)$
 C. $(4 \times 1) \times 3 = 4 \times (1 \times 3)$
 D. $4 \times 1 = 4$

- 5) A. $6 \times (9 \times 8) = (6 \times 9) \times 8$
 B. $5 \times 9 = 9 \times 6$
 C. $1 \times 6 = 6$
 D. $6 \times (9 + 8) = (6 \times 9) + (6 \times 8)$

- 6) A. $(6 \times 9) \times 5 = 6 \times (9 \times 5)$
 B. $(6 \times 9) + (6 \times 5) = 6 \times (9 + 5)$
 C. $6 \times 9 = 9 \times 6$
 D. $6 \times 1 = 6$

- 7) A. $1 \times 9 = 9$
 B. $9 \times (0 \times 3) = (9 \times 0) \times 3$
 C. $9 \times 0 = 0 \times 9$
 D. $9 \times (0 + 3) = (9 \times 0) + (9 \times 3)$

- 8) A. $4 \times (10 + 6) = (4 \times 10) + (4 \times 6)$
 B. $4 \times (10 \times 6) = (4 \times 10) \times 6$
 C. $1 \times 4 = 4$
 D. $4 \times 10 = 10 \times 4$

- 9) A. $10 \times 1 = 10$
 B. $(10 \times 2) \times 1 = 10 \times (2 \times 1)$
 C. $(10 \times 2) + (10 \times 1) = 10 \times (2 + 1)$
 D. $10 \times 2 = 2 \times 10$

- 10) A. $7 \times 8 = 8 \times 7$
 B. $(7 \times 8) \times 2 = 7 \times (8 \times 2)$
 C. $7 \times 1 = 7$
 D. $(7 \times 8) + (7 \times 2) = 7 \times (8 + 2)$

- 11) A. $5 \times (3 \times 7) = (5 \times 3) \times 7$
 B. $1 \times 5 = 5$
 C. $5 \times (3 + 7) = (5 \times 3) + (5 \times 7)$
 D. $5 \times 3 = 3 \times 5$

- 12) A. $2 \times 1 = 2$
 B. $(2 \times 7) + (2 \times 5) = 2 \times (7 + 5)$
 C. $2 \times 7 = 7 \times 2$
 D. $(2 \times 7) \times 5 = 2 \times (7 \times 5)$

Answers

1. D
 2. _____
 3. C
 4. _____
 5. B
 6. _____
 7. C
 8. _____
 9. P
 10. _____
 11. D
 12. _____