

Columbus Day Homework

Name: _____

Date: _____

1. Complete the following problems to show the commutative and identity properties of multiplication.

$$5 \times 3 = 3 \times \underline{\quad}$$

2. $9 \times 2 = 2 \times \underline{\quad}$

3. Another way to write $30 + 18$ is:

- A. $3(10 + 6)$ B. $3 + 10 + 6$
 C. $10 + 6$ D. 11×10

4. Which of the following is equivalent to $3(8x + 2)$?

- A. $26x$ B. $30x$
 C. $24x + 2$ D. $24x + 6$

5. Which is a pair of equal expressions?

- A. $9y + 6$ and $6y + 9$
 B. $7x - 3$ and $3 - 7x$
 C. $2y \times 4$ and $2 \times 4y$
 D. $5x - 10$ and $5(2 - x)$

6. Which of the following is equivalent to the expression below?

$$7x - 3 - 4x + 2$$

- A. $3x - 1$ B. $3x + 1$
 C. $11x - 5$ D. $11x + 5$

7. Which of the following is equivalent to the expression below?

$$\frac{12x - 6}{3}$$

- A. $4x - 6$ B. $4x - 2$
 C. $9x - 3$ D. $12x - 2$

8. Which expression is equivalent to $3y + 2 + 4y$?

- A. $7y + 2$ B. $9y$ C. $12y + 2$

9. Simplify: $10 + 2(4 + w)$

- A. $2w + 18$ B. $w + 18$
 C. $w + 16$ D. $2w + 14$

10. Add: $(c + 4) + (2c - 1)$

- A. $3c + 3$ B. $3c - 5$ C. $2c + 3$ D. $2c - 3$

11. Simplify the expression below.

$$13y + x - 7y$$

12. Which expression shows $3(x + y)$ in its simplified form?

- A. $3xy$ B. $3x + y$
 C. $3x + 3y$ D. $3 + x + y$

13. Simplify: $6b + 4a + 3a - 2b$

- A. $4b + 7a$ B. $11ab$
 C. $9a - 2b$ D. $10a + b$

14. Combine Like Terms:

$$7w^4 + 9w^4$$

15. $4p^2 + 3p^2$
16. $6x^2 + 3x + 9x^2 + 3$
17. $10x^4 + 6x + 7y^2 - 4x^4 + 3x + 9x$
18. Simplify: $3x^2 + 3x - x^2 + 5 + 5x$
- A. $3x^2 + 8x + 5$ B. $10x^2 + 5$
 C. $15x^6$ D. $2x^2 + 8x + 5$
19. William is buying equipment for his bicycle. He buys a helmet for \$19.99, a tire pump for \$8.67, and a new seat for \$13.45. What is the total cost of the items he purchased rounded to the nearest \$10?
- A. \$20 B. \$30 C. \$40 D. \$50
20. What is the solution to the equation?
- $$3 \times 10 + (9 \times 2) =$$
- A. 48 B. 78 C. 84 D. 114
21. What is the value of the expression below?
- $$(13 + 4) - (7 \times 2)$$
- A. 20 B. 12 C. 10 D. 3
22. $(18 + 3) \div (3 - 2) =$
- A. 5 B. 17 C. 19 D. 21
23. What is the value of this expression?
- $$2 + 3 \times 6 - 7$$
- A. 5 B. 13 C. 23 D. 37

24. Use the expression below to answer the following question.
- $$9 + (12 - 7) \div 2 \cdot 4$$
- What is the value of the expression above?
- A. 2 B. 7 C. 19 D. 28
25. Solve.
- $$\frac{3 \times (1 + 5)}{2}$$
- A. 4 B. $7\frac{1}{2}$ C. 9
26. Which expression is equivalent to 32?
- A. $36 - (6 \div 3)(1 + 1)$ B. $(36 - 6) \div 3(1 + 1)$
 C. $36 - 6 \div 3(1) + 1$ D. $(36 - 6) \div 3(1) + 1$
27. Evaluate this expression if $x = 7$ and $y = 3$: $7y - 2x$
- A. 42 B. 14 C. 7 D. 5
28. If $t = 11$ and $s = 5$, evaluate the following expression: $3t - 5s$
- A. 8 B. 4 C. -11 D. 23
29. What is the value of $8x + 2y$ when $x = 5$ and $y = 9$?
- A. 24 B. 58 C. 61 D. 82
30. Evaluate:
- $$y + y + c - 10 + x$$
- when $x = 7$, $y = 10$, and $c = 8$
- A. 11 B. 21 C. 25 D. 105

31. A librarian receives 2 fiction books for every seventh grader (s) at his school and 3 non-fiction books for every eighth grader (e). The expression below represents the number of books he receives.

$$2s + 3e$$

This year there were 13 seventh graders and 8 eighth graders. How many books did the librarian receive this year?

- A. 5 books B. 21 books
C. 50 books D. 55 books
32. Agnes earns d dollars for babysitting each week. She also receives an allowance of \$10 per week. The expression below can be used to calculate the amount of money she will have at the end of 5 weeks.

$$(10 + d) \times 5$$

What is the amount of money Agnes will have at the end of five weeks if $d = \$25$?

- A. \$125 B. \$135 C. \$175 D. \$260
33. A sporting goods store charges different prices for sewing uppercase letters and lowercase letters on a jacket. The expression below shows the cost, in dollars, for sewing x uppercase letters and y lowercase letters.

$$1.5x + 0.75y$$

What is the cost for sewing 2 uppercase letters and 10 lowercase letters on a jacket?

- A. \$3.75 B. \$4.50
C. \$10.50 D. \$16.50
34. Andrew buys books and videos in a store. He uses the expression $6b + 12v$ to find the cost of what he is buying, where b is the number of books and v is the number of videos he buys.

Use the expression to find the total cost of 4 books and 5 videos.

- A. \$27 B. \$54 C. \$78 D. \$84

35. Choose the number sentence that means "2 more than 2 times a number."

- A. $2 + 2n$ B. $2/2n$
C. $2(2n)$ D. $2 - 2n$

36. Pat cleans windows during the summer. He charges \$50 per house and an additional \$5 per window. Which expression represents how much Pat would charge to clean x windows at 1 house?

- A. $50x + 5$ B. $55 + x$
C. $50 + 5x$ D. $50 - \frac{x}{5}$

37. Ada charges a flat rate of \$75 for staining a deck plus an additional \$6 for each hour she works. Which expression below *best* describes the total amount of money Ada charges for staining a deck in x hours?

- A. $75 + 6x$ B. $75 \times 6x$
C. $75x + 6$ D. $81x$

38. Kelly ran 3 miles fewer than twice as far as Jim. Jim ran m miles. Which expression represents how far Kelly ran?

- A. $3 - 2m$ B. $2m - 3$
C. $3m - 2$ D. $2(m - 3)$

39. Jim has \$7.00 that he uses to purchase school lunch. He spends the same amount of money each day. Which expression can be used to show how much Jim can spend on lunch each day?

- A. $7 + d$ B. $7 - d$ C. $7 \times d$ D. $7 \div d$

40. Which of the following expressions represents a number (n) less than 12?

- A. $n - 12$ B. $12 - n$
C. $n + 12$ D. $12 + n$

41. Josie's age is four years greater than double Mario's age. If Mario's age is n years, which of these expressions represents Josie's age?

A. $4n$ B. $4n + 2$
C. $2n + 4$ D. $2(n + 4)$

42. Randy used the expression below to find the cost of renting a shed for a certain number of months (m).

$$45 + 125m$$

What is Randy's cost to rent the shed for 3 months?

A. \$170 B. \$173 C. \$260 D. \$420

43. $13y + 4x - 8y = 13y - 8y + 4x$ shows how the _____ property is applied.

A. commutative B. associative
C. distributive D. identity

44. The equation below is an example of which property of real numbers?

$$2x \cdot \left(\frac{1}{2x}\right) = 1$$

A. Multiplicative identity property
B. Multiplicative inverse property
C. Associative property of multiplication
D. Commutative property of multiplication

45. Which property allows us to rewrite

$$8a + 2b + 3c + 4b \text{ as } 8a + 3c + 2b + 4b$$

A. commutative property
B. associative property
C. additive identity property
D. distributive property

46. Select the property that is demonstrated by:
 $3 + (-3) = 0$

A. Identity Property
B. Associative Property
C. Inverse Property
D. Commutative Property

47. Select the property that is demonstrated by:
 $3 + 7 = 7 + 3$

A. Identity Property
B. Associative Property
C. Inverse Property
D. Commutative Property

48. Select the property that is demonstrated by:
 $(3 + 4) + 8 = 3 + (4 + 8)$

A. Identity Property
B. Associative Property
C. Inverse Property
D. Commutative Property

49. Add these fractions correctly.

$$\frac{5}{12} + \frac{6}{12} =$$

50. Solve. Simplify if necessary.

$$13\frac{1}{2} + 4\frac{1}{2} =$$

51. Find the answer to the problem below.

$$\frac{4}{9} + \frac{1}{12} =$$

52. $2\frac{1}{3} + 4\frac{1}{2} =$

A. $6\frac{1}{6}$ B. $6\frac{1}{5}$ C. $6\frac{2}{5}$ D. $6\frac{5}{6}$

53. $2\frac{1}{6} + 1\frac{3}{5}$
- A. $3\frac{23}{30}$ B. $3\frac{18}{30}$ C. $3\frac{4}{30}$ D. $3\frac{4}{11}$
54. What is the solution to the following problem, in lowest terms?
- $$\frac{1}{8} \times \frac{5}{7} =$$
- A. $\frac{5}{56}$ B. $\frac{7}{40}$ C. $\frac{6}{15}$ D. $\frac{5}{7}$
55. What is $\frac{10}{11} \times \frac{11}{12}$?
- A. $\frac{5}{6}$ B. $\frac{21}{23}$ C. $1\frac{1}{120}$ D. 2
56. What is the solution to the problem below, in lowest terms?
- $$\frac{8}{9} \div \frac{2}{7} =$$
- A. $\frac{4}{63}$ B. $\frac{16}{63}$ C. $3\frac{1}{9}$ D. $3\frac{2}{9}$
57. What is the value of the expression?
- $$\frac{3}{7} \div \frac{3}{4}$$
- A. $\frac{1}{2}$ B. $\frac{9}{14}$ C. $\frac{4}{7}$ D. $\frac{46}{21}$
58. $12 \div \frac{3}{4}$
- A. 9 B. $9\frac{1}{4}$ C. $12\frac{3}{4}$ D. 16
59. Solve.
- $$\$2.83 + \$5.16 = \underline{\hspace{2cm}}$$
- 60.
- $$\begin{array}{r} \$54.78 \\ + \$81.79 \\ \hline \end{array}$$
61. $14.19 + 8.04 =$
- A. 22.14 B. 22.21 C. 22.23 D. 22.24

62. Find the answer to the problem below.
- $$43.17 - 3.05 =$$
63. $8.6 + 7.54 + 9.38 =$
- A. 16.68 B. 17.78 C. 24.42 D. 25.52
64. Which number is 0.01 *more* than 5.3?
- A. 6.30 B. 5.40 C. 5.31 D. 5.20
65. Add:
- $$29.7 + 3.583$$
- A. 22.283 B. 33.283
C. 38.8 D. 65.53
66. Find the difference.
- $$\begin{array}{r} \$94.22 \\ - \$45.17 \\ \hline \end{array}$$
- 67.
- $$\begin{array}{r} \$74.54 \\ - \$41.67 \\ \hline \end{array}$$
68. Solve this problem
- $$\$69.99 - \$2.34 =$$
69. Which number is 0.01 *less* than 8.9?
- A. 7.90 B. 8.80 C. 8.89 D. 9.90
70. What is the value of the expression below when $x = 3$?
- $$4x + 1$$
- A. 7 B. 8 C. 12 D. 13

Columbus Day Homework 10/8/2019

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| <p>1.
Answer: 5
Points: 1</p> <p>2.
Answer: 9
Points: 1</p> <p>3.
Answer: A
Points: 1</p> <p>4.
Answer: D
Points: 1</p> <p>5.
Answer: C
Objective: CC 6.EE.4
Points: 1</p> <p>6.
Answer: A
Objective: MA 10.P.4
Points: 1</p> <p>7.
Answer: B
Objective: MA 10.P.3
Points: 1</p> <p>8.
Answer: A
Points: 1</p> <p>9.
Answer: A
Points: 1</p> <p>10.
Answer: A
Points: 1</p> <p>11.
Answer: $6y + x$
Objective: CC 7.EE.1
Points: 1</p> <p>12.
Answer: C
Objective: MS 2e1
Points: 1</p> <p>13.
Answer: A
Points: 1</p> | <p>14.
Answer: $16w^4$
Points: 1</p> <p>15.
Answer: $7p^2$
Points: 1</p> <p>16.
Answer: $15x^2 + 3x + 3$
Points: 1</p> <p>17.
Answer: $6x^4 + 18x + 7y^2$
Points: 1</p> <p>18.
Answer: D
Objective: OH 7.PA.G
Points: 1</p> <p>19.
Answer: C
Points: 1</p> <p>20.
Answer: A
Points: 1</p> <p>21.
Answer: D
Points: 1</p> <p>22.
Answer: D
Points: 1</p> <p>23.
Answer: B
Objective: LA N.4
Points: 1</p> <p>24.
Answer: C
Points: 1</p> <p>25.
Answer: C
Points: 1</p> <p>26.
Answer: A
Objective: MS 1d2
Points: 1</p> |
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| 27. | | 42. | |
| Answer: | C | Answer: | D |
| Points: | 1 | Points: | 1 |
| 28. | | 43. | |
| Answer: | A | Answer: | A |
| Points: | 1 | Points: | 1 |
| 29. | | 44. | |
| Answer: | B | Answer: | B |
| Points: | 1 | Objective: | MS 2e1 |
| 30. | | Points: | 1 |
| Answer: | C | 45. | |
| Points: | 1 | Answer: | A |
| 31. | | Points: | 1 |
| Answer: | C | 46. | |
| Points: | 1 | Answer: | C |
| 32. | | Points: | 1 |
| Answer: | C | 47. | |
| Objective: | MA 6.P.2 | Answer: | D |
| Points: | 1 | Points: | 1 |
| 33. | | 48. | |
| Answer: | C | Answer: | B |
| Objective: | MA 7.P.2 | Points: | 1 |
| Points: | 1 | 49. | |
| 34. | | Answer: | $\frac{11}{12}$ |
| Answer: | D | Points: | 1 |
| Objective: | OH 6.PA.G | 50. | |
| Points: | 1 | Answer: | 18 |
| 35. | | Points: | 1 |
| Answer: | A | 51. | |
| Points: | 1 | Answer: | $\frac{19}{36}$ |
| 36. | | Points: | 1 |
| Answer: | C | 52. | |
| Points: | 1 | Answer: | D |
| 37. | | Points: | 1 |
| Answer: | A | 53. | |
| Points: | 1 | Answer: | A |
| 38. | | Points: | 1 |
| Answer: | B | 54. | |
| Points: | 1 | Answer: | A |
| 39. | | Points: | 1 |
| Answer: | D | 55. | |
| Points: | 1 | Answer: | A |
| 40. | | Points: | 1 |
| Answer: | B | 56. | |
| Points: | 1 | Answer: | C |
| 41. | | Points: | 1 |
| Answer: | C | 57. | |
| Points: | 1 | Answer: | C |
| | | Points: | 1 |

58.
Answer: D
Points: 1
59.
Answer: \$7.99
Points: 1
60.
Answer: \$136.57
Points: 1
61.
Answer: C
Points: 1
62.
Answer: 40.12
Points: 1
63.
Answer: D
Points: 1
64.
Answer: C
Points: 1
65.
Answer: B
Points: 1
66.
Answer: \$49.05
Points: 1
67.
Answer: \$32.87
Points: 1
68.
Answer:
Points: 1
69.
Answer: C
Points: 1
70.
Answer: D
Objective: MA 6.P.2
Points: 1