Name_____atfm0301car2810yes
VIDEOS ON DEMAND

website **www.alvarezmathhelp.com**

PROGRAMS: ALVAREZLAB AND INTERACTMATH (CARSON PREALGEBRA 3RD EDITION)

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Simplify using order of operations.

1) $-10\sqrt{100} + |22 \div (-11)| - (22 - 10)$ 1) _____

    A) –130   B) –110   C) –101   D) –86

Objective: (2.5) Use Order of Operations (with Radical)
VIDEO 26

2) $\dfrac{-19 + 5^2 - (-15)}{-6 - 9 + 18}$ 2) _____

    A) 4   B) –7   C) –4   D) 7

Objective: (2.5) Use Order of Operations (Quotient)
VIDEO 27

Evaluate.

3) $-|4m + 4n|$; $m = -8, n = 3$ 3) _____

    A) –15   B) –17   C) –20   D) –24

Objective: (3.1) Evaluate Algebraic Expression
VIDEO 31

Evaluate the expression using the given values.

4) $\dfrac{x^2}{2z + y}$; $x = 5, y = -1, z = 3$.   4) _____

    A) 5   B) – 5   C) 25   D) $\dfrac{25}{7}$

Objective: (3.1) Evaluate Algebraic Expression (Rational/Radical)
VIDEO 33

Subtract and write the resulting polynomial in descending order of degree.

5) $(9p^2 + 12p + 8) - (3p^2 + 4p - 6)$ 5) _____

    A) $6p^2 - 8p - 14$ B) $6p^2 + 8p + 2$ C) $6p^2 + 8p + 14$ D) $6p^4 + 8p^2 + 14$

Objective: (3.3) Subtract Polynomials
VIDEO 41

Find the prime factorization. Write the answer in exponential form.

6) 30   6) _____

    A) $2 \cdot 3 \cdot 5$ B) $2^2 \cdot 5$ C) $6 \cdot 5$ D) $3^2 \cdot 2$

Objective: (3.5) Find Prime Factorization
VIDEO 48

Solve and check.

7) $4(y + 2) = 5(y - 2)$ 7) _____

    A) $y = 2$ B) $y = -18$ C) $y = 18$ D) $y = -2$

Objective: (4.2) Solve Linear Equation
VIDEO 53

8) $7y - 2(y - 2) = 9y - (5y + 8)$ 8) _____

    A) $y = 4$ B) $y = -12$ C) $y = 12$ D) $y = -4$

Objective: (4.2) Solve Linear Equation
VIDEO 55

Multiply and express the product in lowest terms.

9) $\dfrac{15}{18} \cdot \dfrac{3}{5}$

    9) _____

    A) $\dfrac{1}{5}$ B) $\dfrac{6}{7}$ C) $\dfrac{45}{90}$ D) $\dfrac{1}{2}$

10) $-\dfrac{12x^4y}{10z} \cdot \dfrac{20z}{20x^2}$

    10) _____

    A) $-\dfrac{6x^2y}{5}$ B) $-\dfrac{3x^2y}{10}$ C) $-\dfrac{6x^2yz}{5}$ D) $-\dfrac{6x^2z}{5}$

Solve.

11) $-\dfrac{16}{21}y = -\dfrac{4}{15}$

    11) _____

    A) $\dfrac{28}{5}$ B) $\dfrac{16}{35}$ C) $\dfrac{35}{16}$ D) $\dfrac{7}{20}$

Find the LCM.

12) $30h^5k$ and $360h^2k^3$

    12) _____

    A) $360h^5k^3$ B) $360h^7k^4$ C) $30h^2k$ D) $15h^2k$

Add or subtract.

13) $\dfrac{4}{8} + \dfrac{1}{12} + \dfrac{4}{15}$

    13) _____

    A) $\dfrac{59}{180}$ B) $\dfrac{17}{20}$ C) $1\dfrac{7}{10}$ D) $\dfrac{3}{40}$

Solve.

14) $k + \dfrac{1}{5} = \dfrac{1}{2}$

    14) _____

    A) $\dfrac{2}{5}$ B) 3 C) $\dfrac{3}{10}$ D) $\dfrac{7}{10}$

Simplify.

15) $\left(\dfrac{2}{3}\right)^2 + 5\dfrac{1}{3} \div 1\dfrac{1}{5}$

    15) _____

    A) $4\dfrac{22}{27}$ B) $5\dfrac{1}{9}$ C) $4\dfrac{8}{9}$ D) $5\dfrac{7}{9}$

Solve.

16) $-7.4q + 1.3 = -28.2 - 1.5q$

    A) $q = -35$ B) $q = 5$ C) $q = 4.2$ D) $q = 4.0$

16) _____

17) The diagram below shows the side view of a plan for a slanted roof. Find the unknown length in this roof plan.

17) _____
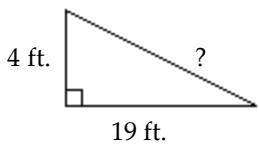
    A) 9.7 ft.   B) 188.5 ft.   C) 19.4 ft.   D) 11.5 ft.

Solve for the missing number.

18) $\dfrac{48}{132} = \dfrac{12}{x}$

18) _____

    A) $\dfrac{576}{132}$ B) 1536   C) $\dfrac{1}{33}$ D) 33

19) $\dfrac{1}{2} = \dfrac{n}{4\frac{1}{7}}$

19) _____

    A) $2\dfrac{1}{14}$ B) $3\dfrac{1}{2}$ C) $8\dfrac{1}{7}$ D) $\dfrac{14}{29}$

Solve the problem.

20) If 4 sandwich rolls cost $1.08, how much will 24 rolls cost?

20) _____

    A) $7.48   B) $6.48   C) $4.32   D) $6.32

Translate to a proportion and solve.

21) 51 is 60% of what number?

21) _____

    A) 8.5   B) 30.6   C) 85   D) 850

Translate to a proportion and solve. Round the answer to the nearest tenth of a percent if necessary.

22) What percent of 1080 is 54?

22) _____

    A) 20%   B) 5%   C) 21%   D) 6%

Solve the problem.

23) The appliance store where the Scott family shops offers a 6% discount for paying cash. The Scott family received a discount of $41. What was their total bill before the discount?

23) _____

    A) $683   B) $200   C) $2   D) $7

Solve.

24) A camera costs $670. If the sales tax rate is 4%, how much tax is charged and what is the total price? Round your answers to the nearest cent.

    A) $268.00, $938.00   B) $20.10, $690.10

   C) $26.80, $696.80   D) $33.50, $703.50

Objective: (8.5) Solve Apps: Solve Given Percent Increase (Sales Tax)
VIDEO 109

24) _____

Give the coordinates of the points shown on the graph.

25)
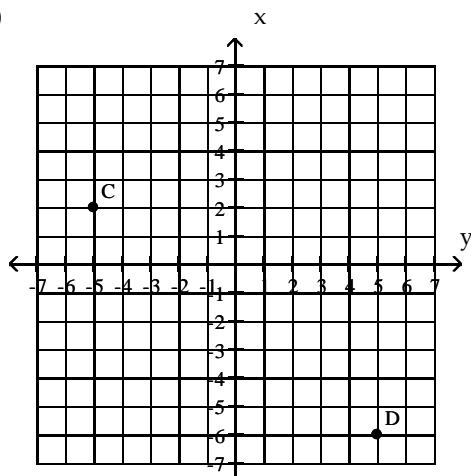
    A) C = (−5, −6), D = (2, −6)   B) C = (2, 6), D = (−6, 5)

    C) C = (−5, 2), D = (−6, 5)   D) C = (−5, 2), D = (5, −6)

Objective: (9.2) Find Coordinates of Point on Graph
VIDEO 113

25) _____

Answer Key
Testname: AT4M0301CAR2810

1) B
2) D
3) C
4) A
5) C
6) A
7) C
8) B
9) D
10) A
11) D
12) A
13) B
14) C
15) C
16) B
17) C
18) D
19) A
20) B
21) C
22) B
23) A
24) C
25) D