Test Prep Champions' Math Practice Test

For the GED® Test Math Section

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Problems

You may NOT use a calculator for questions 1 and 2!

1. What is the value of the expression $17(11x - y) - (1 + x^2)$ when $x = 2$ and $y = 20$?

    A. 8
    B. 29
    C. 19
    D. 7

2. What is the value of the expression?
$-3(12 - 20) + 3x4^3$

Write your answer in the box below:

You may use a calculator for the remainder of the test.

3. Joe must order t-shirts. A t-shirt company finds the cost (C) to the buyer using the following function, where $S =$ the number of t-shirts, and $n =$ the number of colors.

$$C = \$19.99S + \$12.00S(n - 1)$$

If Joe buys 3 shirts made in 2 colors, how much will the shirts cost?

Write your answer in the box below:

4. A ladder is leaning up against a shed as shown. The ladder touches the shed wall 14 feet above the ground, and touches the ground 10 feet from the base of the shed wall. What is the length of the ladder?
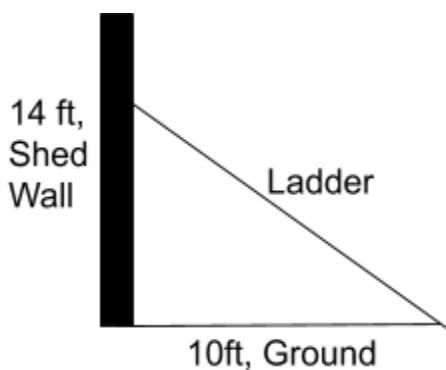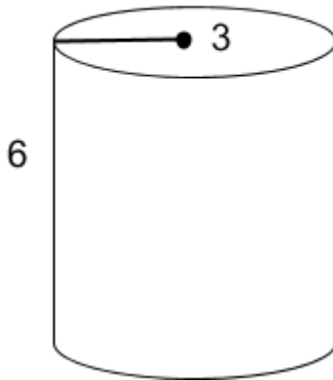

Write your answer in the box below:

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5. What is the value of 3^9?

Write your answer in the box below:

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6. What is the surface area of the cylinder?

    A. 54π

    B. 63π

    C. 98π

    D. 19π

7. Jen spends 2 hours pedaling her bicycle from her house to her cousin's house. It only takes Jen an hour and a half to bike home. If Jen's cousin lives 10 miles away from Jen, what was Jen's average rate of speed in miles per hour, rounded to the nearest whole number?

    A. 5 mph

    B. 10 mph

    C. 6 mph

    D. 11 mph

8. Sam loaned $650 to his sister for 6 months, who agreed to pay him simple interest at an annual rate of 7%. Including both interest and principal, how much will sam's sister have paid him after 6 months?

    A. $22.75

    B. $208.93

    C. $672.75

D. $49.44

9. Jason played in 8 basketball games. His scores were 20, 30, 8, 16, 4, 10, 32, and 20 points during each game, respectively. What was Jason's average # of points scored in these 8 games, rounded to the nearest whole number?
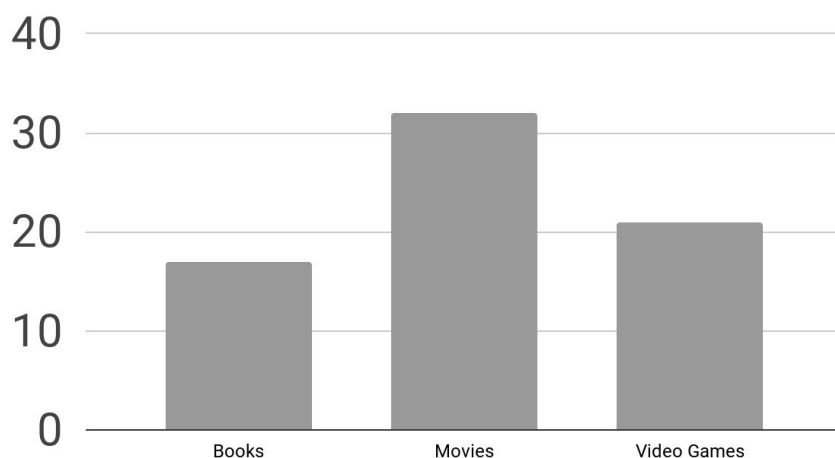 A. 29
  B. 12
  C. 18
  D. 9

10. What is the median of the numbers in the dataset [29, 3, 50, 9]?

Write your answer in the box below:

11. Zach's Entertainment is a store that sells books, movies, and video games.

Zach's Entertainment Monthly Sales Totals for June

About how much did Zach's Entertainment make from book, movie, and game sales in June?

    A. $20,000
    B. $70,000
    C. $100,000
    D. $40,000

12. Mrs. Thompson wants to take her husband and her two children to the movies. Both children are under thirteen years old. Each child will bring one friend of the same age along. The ticket prices are as follows in the table below:

| Adults and teens 13 years old and up	Children under 13 years old
$10 each for a day show	$7 each for a day show
$12 each for a night show	$9 each for a night show

If Mrs. Thompson is buying the tickets, how much money will she save on the cost of the tickets if they attend a day show instead of a night show? Disregard sales tax in your answer.

    A. $12

    B. $48

    C. $60

    D. $150

13. A jar has 14 red, 8 orange, 12 green, and 16 pink marbles. What is the probability of drawing a pink marble if a single marble is drawn at random, expressed as a percent?

    A. 5%

    B. 52%

    C. 64%

    D. 32%

14. What's the measure of the missing angle of the trapezoid?
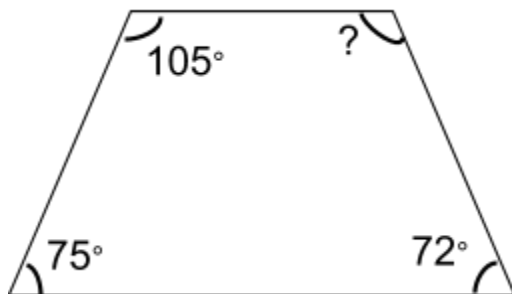
    A. 120°

    B. 75°

    C. 108°

    D. 72°

15. Match the vale of each variable to the equation

Equation	Value of Variable
$19 + b = 20$	
$7x = 28$	
$\frac{y}{20} = 2$	
$a - 8 = 10$	

40
18
1
4

16. The points -3 and 2 are plotted on a number line. What is the distance, in units, between the two points?

   A. 5

    B. 3

    C. 4

    D. -4

17. A carpenter uses a scale drawing of a house to aid his construction. If he uses a scale of 1 inch = 4 feet, what is the length, in inches, of a line on the scale drawing that represents 6 feet as an actual length?

Write your answer in the box below:

18. Joan gets a haircut that costs $19.99 before tax and tip. Joan paid 6% tax, then added a 20% tip to her total bill (including tax). How much did Joan pay in total for her haircut? Round your answer to the nearest cent.

Write your answer in the box below:

19. What is the equation of the line?
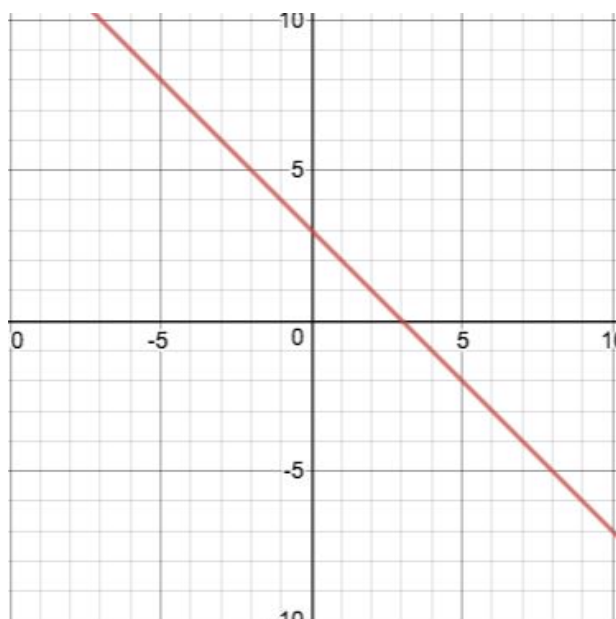
A. $y = 8x + 3$

B. $y = -x + 3$

C. $y = -18x + 3$

D. $y = 12x - 3$

20. Solve the following system of equations.

$-3x + 2y = -1$

$-6x = 2y + 8$

Write your answer in the box below:

21. Which of the following represents a function?

A.

x	y
0	1
2	-6
2	7
3	18

B.

x	y
2	0
2	3
4	-7
4	7

C.

x	y
4	2
4	14
5	7
-6	-9

D.

x	y
-2	1

-3	1
9	7
4	3

22. Add:

$\frac{2}{x} + \frac{x}{x+4}$

Write your answer in the box below:

23. An electronics store sells packs of batteries that include 8, 16, or 32 batteries. If James orders x packs with 8 batteries, y packs of 16 batteries, and z packs of 32 batteries, which expression represents the total number of batters james is buying?

    A. $8 + 16 + 32 + x + y + z$

    B. $8x + 16xy + z$

    C. $8x + 16y + 32z$

    D. $8x - 16y - 32z$

Answers:

1. B
2. 216
3. 95.97
4. 17.2ft
5. 19683
6. A
7. C
8. C
9. C
10. 19
11. B
12. A
13. D
14. C
15. 1, 4, 40, 18
16. A
17. 1.5
18. $24.44
19. B
20. Y = -5/3, x= -7/9
21. D
22. $\dfrac{x^2+2x+8}{(x+4)(x)}$
23. C

Next Step:

Congratulations for completing this practice test!

Your next step is to review any topic(s) you had trouble with in your textbooks or on YouTube.

GOOD LUCK ON YOUR TEST!

You Might Also Be Interested In My GED Math Ebook:

The Champions' Guide to Winning on the GED Test Math Section

200+ GED test math practice problems with in-depth solutions:
https://www.testprepchampions.com/ged-math-guide

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