GED Ready Math Review Test

1. What is the GCF (Greatest Common Factor) that is used to reduce this fraction?

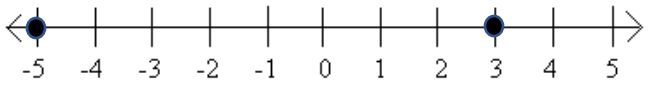
$\frac{60}{96}$

A) 10
B) 8
C) 12
D) 14

2. $\square^2 = \sqrt{49}$ What goes in the box?

A) 7
B) 6
C) 49
D) $\sqrt{7}$

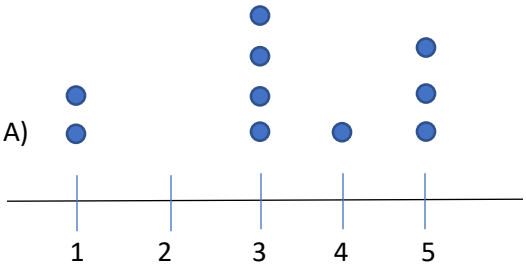
3. Find the distance between the two points on the number line.



A) $|5-3|$
B) $|-5-3|$
C) $|3-5|$
D) $|-2|$

4. An animal shelter recorded how many pets were rescued during a 5 day period. On Day 1: 2 were rescued, on day 2: none were rescued, on day 3: 4 were rescued, on day 4: 1 was rescued, and on day 5: 3 were rescued. Which line plot correctly represents this data?

A)



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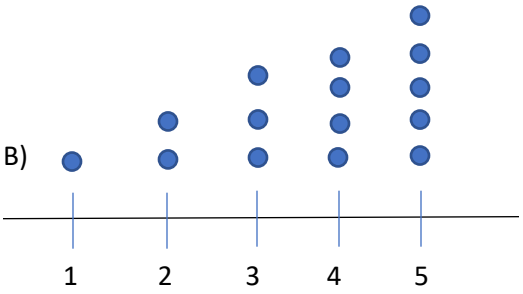

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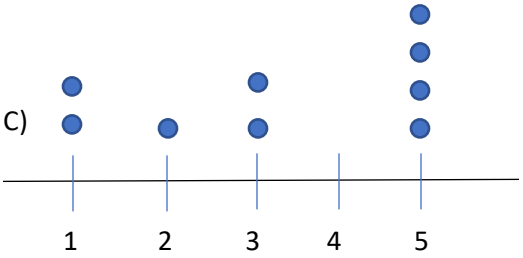


5. Find the surface area of a sphere with a diameter of 35.6 inches.

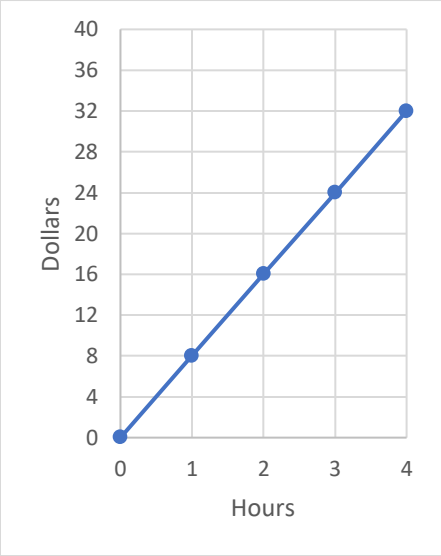
A) 447.14 in^2
B) 3979.51 in^2
C) 223.57 in^2
D) 15918 in^2

6. You are making cakes for a party. You need to buy a cake pan and then several cake mixes. If the cake pan costs $14.98 and the mixes cost $1.88 how many cake mixes can you buy with a budget of $30?

A) 8
B) 7
C) 15
D) 16

7. The graph shows Tom's hourly wage and the table shows Karen's hourly wage. Who has the greater hourly wage?

Tom



Karen

Hours	Dollars
1	$8.75
2	$17.50
3	$26.25
4	$35.00

A) Tom
B) Karen
C) They make the same hourly wage.

8. Devon owns a house cleaning company and has to give price quotes to potential customers. He figures out his price by assuming a $25 base charge and then adding $8 for each bathroom and $4 for each other room.

   If he uses *P* to represent the price, *B* for bathroom, and *R* for other rooms, which of the following represents his price quote formula?

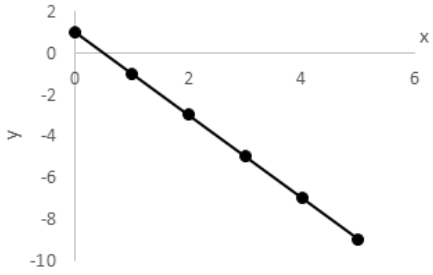
A) P = 25 + 12(BR)
B) P = 25(4R + 8B)
C) P = 25 + 8B + 4R
D) P = (4)(8)(R + B) + 25

9. Jenny is taking a vacation to Florida. She travels 70 miles per hour for 2 hours, and 63 miles per hour for 5 hours. Over the 7 hour time period what was Jenny's average speed?

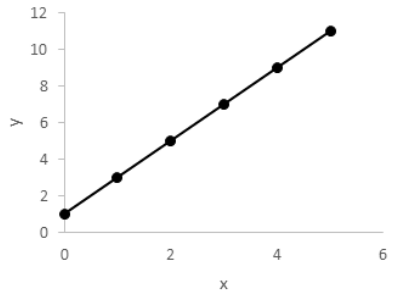
A) 64 mph
B) 65 mph
C) 66 mph
D) 67 mph

10. Which of the following graphs represents the equation $y = 2x + 1$?

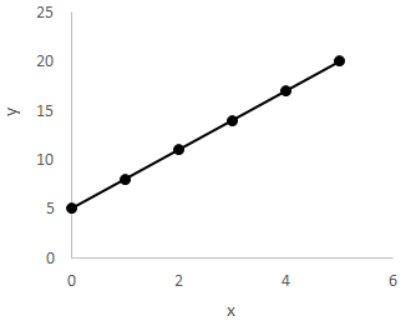
A)



B)



C)



11. Find the error that was made in solving the equation.

$5x - 7 = 3$

Step 1 $+7$

$5x = 3$

Step 2 $\div 5 \quad \div 5$

$x = \frac{3}{5}$

A) The error is in step 2. You should multiply by 5 instead of dividing.
B) The error is in step 1. 7 should have also been added to the other side of the equation.
C) The error is in the final solution. It should not be a fraction. It should be $x = 0.6$
D) The error is in step 1. 7 should have been subtracted instead of added.

12. Find the height of the cone with volume of 339.12 cubic cm. and radius of 6 cm.
A) 4069.44 cm
B) 169.56 cm
C) 9 cm
D) 54 cm

13. Which two are functions?

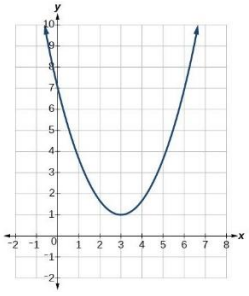
1

X	Y
2	11
3	14
4	17

3

X	Y
3	7
5	9
3	14

2



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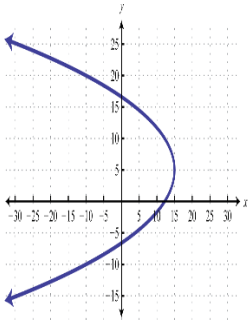


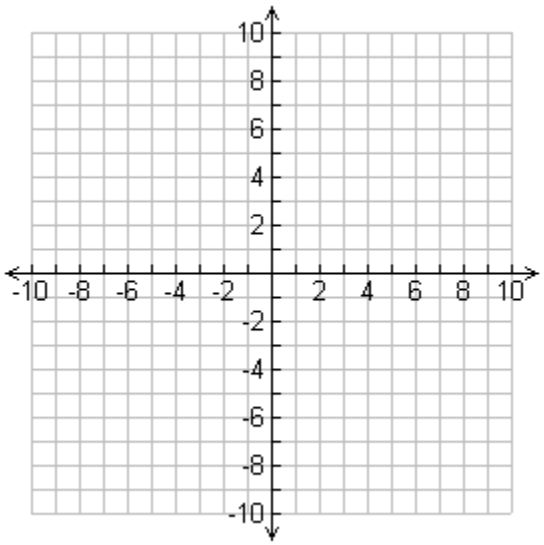
A) 1 and 4
B) 1 and 2
C) 3 and 4
D) 2 and 3

14. What are the solutions to the following equation?

$3x^2 + 10x - 8 = 0$

A) -4, 3
B) 2, 3
C) $\frac{2}{3}, -4$
D) $0, 8$

15. Plot the points on the graph. A (2,3) B (-4, 5) C (-6, -2) D (3,-3)



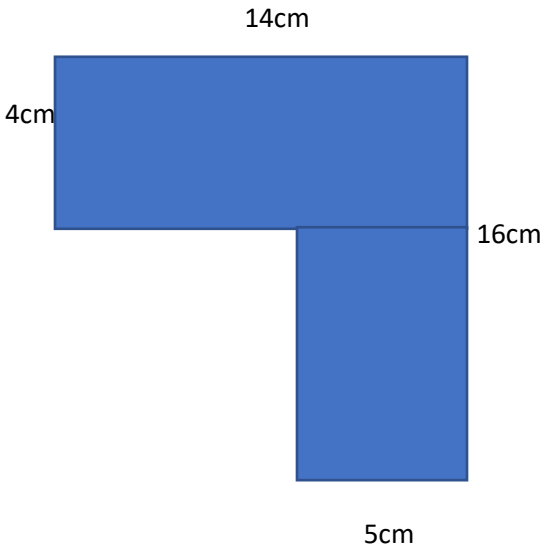
16. You pay $708.75 to floor a room in your house. What is the cost per square foot if the room measures 21 ft. by 15 ft.?

A) $1.75 per sq. ft.
B) $3.85 per sq. ft.
C) $2 per sq. ft.
D) $2.25 per sq. ft.

17. If you buy 2 gal. of milk for $1.29 per gal., 3 loaves of bread for $1.55 per loaf, and a jar of peanut butter for $2.69 what is your total cost?

A) $9.92
B) $8.56
C) $5.53
D) $10.00

18. Find the perimeter of the shape.



A) 39 cm
B) 57 cm
C) 60 cm
D) 56 cm

19. What are the solutions to the following quadratic equation?

$2x^2 - 4x = 1$

A) $\frac{9+\sqrt{13}}{4}, \frac{9-\sqrt{13}}{4}$
B) $\frac{-4+\sqrt{12}}{8}, \frac{-4-\sqrt{12}}{8}$
C) $\frac{4+2\sqrt{6}}{4}, \frac{4-2\sqrt{6}}{4}$
D) $\frac{2+6\sqrt{2}}{4}, \frac{2-6\sqrt{2}}{4}$

20. Find the length of a rectangle if the width is 17 in. and the area is 255 in^2.

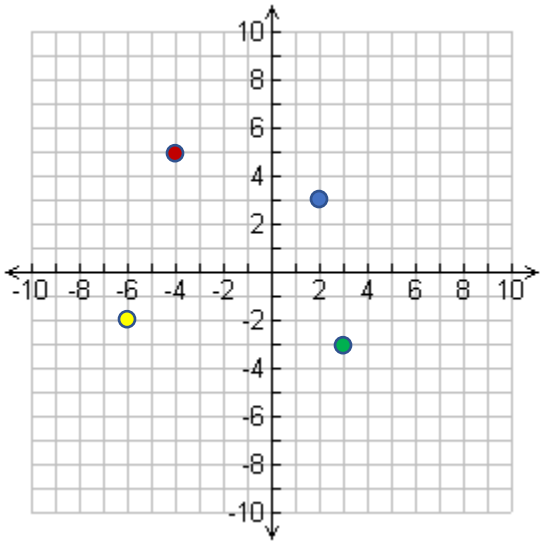
A) 25 in.
B) 14 in.
C) 20 in.
D) 15 in.

21. The bottom of a ladder must be placed 3 feet from a wall. The ladder is 10 feet long. How far above the ground does the ladder touch the wall? Round to the nearest hundredth.

Answer Key

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

15)



16) D
17) A
18) C
19) C
20) D
21) 9.54 feet