



GED Math Practice Test:

1. Solve: $(10 - 5) + 4 \times 11$
A) 99
B) 49
C) 59
D) 109

2. The following set of data is given: 12, 14, 20, 18, 16, 14, 24, 16, 14 Adding which pair of numbers would make the mean higher?
A) 12 and 14
B) 12 and 16
C) 18 and 22
D) 22 and 24

3. Abigail would like to purchase a new Kindle for \$160. She has a coupon at Best Buy for 20% off. How much will the Kindle cost if she uses the coupon?
A) \$32
B) \$60
C) \$110
D) \$128

4. On the last day camp, Krystal wants to treat her cabin to popsicles. She has 12 girls in her cabin. At the camp store Krystal can buy a pack of 4 popsicles for \$3.50. What will it cost her to buy popsicles for her entire cabin?
A) \$10.50
B) \$7.50
C) \$7.00
D) \$12.00

5. Solve the inequality: $y - 9 > 18$
A) $y < 27$
B) $y > 27$
C) $y = 27$
D) $y = 9$

6. Peter went to the hardware store with \$10. He needs to purchase some light plate and outlet covers. Here are the prices at the store:

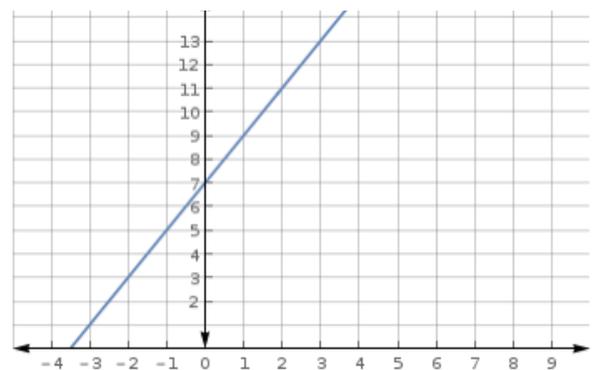
Light plate covers: \$0.75

Outlet plate covers: \$1.25

He has enough money to purchase which set of item below?

- A) 7 light plate covers and 4 outlet plate covers
B) 6 light plate covers and 6 outlet plate covers
C) 6 light plate covers and 4 outlet plate covers
D) 5 light plate covers and 6 outlet plate covers

7. What is the slope of the line?



- A) 2
B) 2
C) $\frac{1}{2}$
D) 7



GED MATH HACKS

GED Math Practice Test: Continued

8. The table below shows the number of bouncy ball possibilities at an arcade. Each of the bouncy balls have one color and one design. If a red bouncy ball is chosen at random, what is the possibility that it will have stars on it?

	Yellow	Red	Blue
Spots	4	5	3
Stars	6	3	3
Hearts	1	4	6

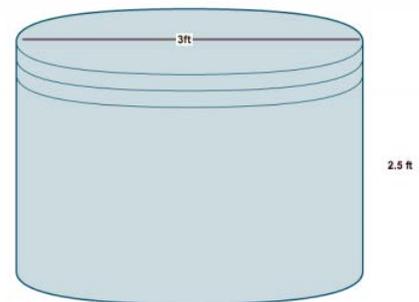
- A) $\frac{1}{4}$
 B) $\frac{1}{2}$
 C) 33%
 D) $\frac{5}{12}$
9. Below is a chart showing the attendance record for a math summer camp.

Day	Number of Students
Monday	12
Tuesday	11
Wednesday	14
Thursday	12

On which day is the number of student attendance a prime number?

- A) Thursday
 B) Wednesday
 C) Tuesday
 D) Monday

10. Taylor is trying to fill an old fire pit in his front yard with dirt. How much dirt will he need to fill the entire pit? Round up to the nearest whole number.



- A) 16 ft^3
 B) 18 ft^3
 C) 20 ft^3
 D) 21 ft^3
11. Kim lives 3 city blocks north of the public library. Each city block in her town is 1 km. The market is 4 blocks west of the library. If Kim leaves her house and walks to the library and then to the market, before returning home, what is the total distance she will have walked?

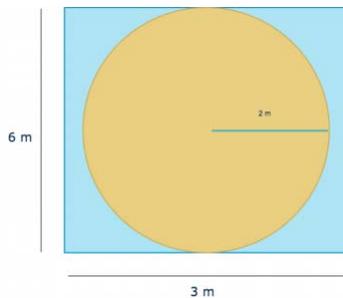
- A) 6 km
 B) 12 km
 C) 7 km
 D) 14 km



GED Math Practice Test: Continued

12. Paul is building a new dog house for his dogs. The old dog house has a base that measures 2 ft by 3 ft. The plans for the new dog house have a base that measures 3 ft x 5 ft. How much larger is the area of the new dog house than the old dog house?
- A) 12 ft²
B) 9 ft²
C) 6 ft²
D) 3ft²

13. What is the area of the blue space below?



- A) 2.5 m²
B) 3.9 m²
C) 5.5 m²
D) 7.5 m²

14. Carly gets a loan from bank for a new car. She borrows \$5,000 and get a simply yearly interest for 8%. She pays it off in 3 years with 36 payments. What is her monthly payment?
- A) \$172.22
B) \$206.20
C) \$138.89
D) 105.56
15. Kelly needs 13 gallons of gas. One gas station in town has gas priced at \$2.49/gallon. The other gas station has gas prices at \$2.62/gallon. If Kelly buys gas for \$2.49, how much will she have saved compared to the other station.
- A) \$1.69
B) \$1.96
C) \$2.04
D) \$2.06



GED Math Practice Test: Answers

1) **B. 49**

Explanation: This problem is testing your knowledge about Order of Operations. First, solve the problem in the parenthesis. Second, evaluate any powers and roots. Third, MULTIPLY and DIVIDE from left to right. Fourth, ADD and SUBTRACT from left to right.

$$\begin{aligned} \text{So, } & (10 - 5) + 4 \times 11 \\ & 5 + 4 \times 11 \\ & 5 + 44 \\ & 49 \end{aligned}$$

2) **D. 22 and 24**

Explanation: Since the highest number in the set of data is 24, adding another 24 will bring the average up.

3) **D. \$128**

Explanation: $\$160 \times .20 = \32 in savings. We then need to subtract the savings from the original price, so $\$160 - 32 = \128 for the Kindle.

4) **A. \$10.50**

Explanation: 4 goes into 12, 3 times. This means that Krystal will need 3 boxes to feed 12 girls. So, $3 \text{ boxes} \times 3.50 = \10.50

5) **B. $y > 27$**

Explanation:
Add 9 to each side.
 $y - 9 + 9 > 18 + 9$
 $y > 27$

6) **C. 6 light plate covers and 4 outlet plate covers**

Explanation: You need to find the total cost of each group of items by setting numerical expression. The group that totals less than \$10 is what he can afford. The numerical expressions of each group would look like this:

$$\begin{aligned} 7(.75) + 4(1.25) &= \$10.25 \\ 6(.75) + 6(1.25) &= \$12 \\ 6(.75) + 4(1.25) &= \$9.50 \\ 5(.75) + 6(1.25) &= 11.25 \end{aligned}$$

Because C is less than \$10, that is the correct answer.

7) **B. 2**

Explanation: This question is testing your ability to determine slope for a linear line. Slope can be found by using the rise over run formula, which states the $(y_2 - y_1) / (x_2 - x_1)$. The line in this graph passes through (1,9) and (2,11). Therefore, $y_2 = 11$ and $y_1 = 9$ and $x_2 = 2$ and $x_1 = 1$. Plug these values into the formula: $(11 - 9) / (2 - 1) = 2/1$



GED Math Practice Test: Answers Continued

8) **A. $\frac{1}{4}$**

Explanation: According to the table there are 5 red balls with spots, 3 red balls with stars and 4 red balls with hearts. So, $5 + 3 + 4 = 12$. Since 3 of these have stars, that means three of them are a possible outcome. So a child has a $\frac{3}{12}$ possibility for choosing a red ball with stars. $\frac{3}{12}$ can then be reduced to $\frac{1}{4}$.

9) **C. Tuesday**

Explanation: A prime number is that which can only be divided by itself. 11 is the only prime number in the set of data.

10) **B. 18 ft^3**

Explanation: This question is testing your ability to determine the volume of a cylinder. The volume of a cylinder can be found by using the formula, $v = \pi r^2 h$
In this problem, $r = 1.5$ and $h = 2.5$,
so
 $v = \pi(1.5)^2(2.5)$
 $v = \pi(2.25)(2.5)$
 $v = \pi 5.63$
 $v = 17.69$, then round up to the nearest whole number to get 18.

11) **D. 14 km**

Explanation: It necessary to calculate the distance between the Kim's home and the library, as well as the library and the market. You can add the distances. And then, because we know that Kim walked there AND back, we can multiple the distance by 2. So, Distance to the library = 3 blocks = 3 km. Distance from the library to the market = 4 blocks = 4km
So, $3 + 4 = 7 \text{ km}$
 $7 \times 2 = 14 \text{ km total}$

12) **B. 9 ft^2**

Explanation: To find the answer you must find the difference of the two areas. You must first find the area of old dog house. So, $2 \text{ ft} \times 3 \text{ ft} = 6 \text{ ft}^2$ You then need to find the area of the new dog house base. So, $3 \text{ ft} \times 5 \text{ ft} = 15 \text{ ft}^2$. You then need to find the difference, so $15 - 6 = 9$.



GED Math Practice Test: Answers Continued

13) **C. 5.5 m²**

Explanation: The blue space is the difference between the square and the circle. You must begin by finding the area of the square and the circle.

Area of the square:

$$6 \times 3 = 18\text{m}^2$$

$$\text{Area of the circle: } \pi r^2 = \pi 4 = 12.5$$

Then,

$$18 - 12.5 = 5.5$$

14) **A. \$172.22**

Explanation: This question can be solved by using the simple interest formula.

Simple interest = principal amount x rate x time

$$SI = 5,000 \times .08 \times 3$$

$$SI = 1,200$$

The total that Carly must pay back is, 5,000(original loan amount) + 1,200 (interest) = \$6,200

The duration is 3 years, which is 36 years.

$$\$6,200/36 = \$172.22$$

15) **A. \$1.69**

Explanation: To solve this problem you need to find the difference between the two totals. You first need to figure out how much each would cost. So,

$$\$2.49 \times 13 = \$32.37$$

$$\$2.62 \times 13 = \$34.06$$

$$\text{Then, } 34.06 - 32.37 = \$1.69$$