College Admission
PERT
PERT Test Prep Certification Exam

Latest Version: 6.0

Question: 1

783 − 124 =

a. 584
b. 559
c. 619
d. 659

Answer: D

Explanation:

First, place 783 on top of 124 to subtract vertically. Then, subtract from right to left. 3 − 4 is negative, so borrow from the 8 to make 3 become 13 and 8 is reduced to 7. 13 − 4 = 9, so write a 9 under the 4. 7 − 2 = 5, so write a 5 under the 2. 7 − 1 = 6, so write a 6 under the 1. This gives a final answer of 659.

783	$77\overset{+10}{3}$	$77\overset{+10}{3}$	$77\overset{+10}{3}$
−124	−124	−124	−124
	9	59	659

Question: 2

19 + 23 + 81 + 4 =

a. 123
b. 104
c. 113
d. 127

Answer: D

Explanation:

Add from left to right. 19 + 23 = 42, then 42 + 81 = 123, and finally, 123 + 4 = 127.

Question: 3

Maria buys $\frac{1}{5}$ of a pound of grapes and $\frac{3}{4}$ of a pound of berries. How many total pounds of fruit did Maria buy?

a. $\frac{4}{20}$
b. $\frac{4}{9}$
c. $\frac{5}{8}$
d. $\frac{19}{20}$

Answer: D

Explanation:

Since we are finding the total pounds of fruit, we will add $\frac{1}{5}$ and $\frac{3}{4}$. To add the two fractions, we must first find the common denominator, which we will do by multiplying the first fraction by $\frac{4}{4}$ and the second fraction by $\frac{5}{5}$. We will then evaluate the expression $\frac{4}{20} + \frac{15}{20}$, by keeping the denominator and adding the numerators to get $\frac{19}{20}$. Therefore, the total amount of fruit that Maria bought is $\frac{19}{20}$ of a pound.

Question: 4

Solve: $\$8.45 - \$0.56 =$

a. $7.45
b. $7.99
c. $7.89
d. $8.11

Answer: C

Explanation:

Start by writing the problem vertically, making sure to line up the digits in each number according to place value. To subtract, begin with the hundredths column on the right. Since $5 - 6$ results in a negative number, we need to borrow from the tenths place. Cross out 4 in the tenths place and replace it with 3 since we are taking 1 away. Next, write the borrowed 1 in front of the 5 in the hundredths place to get 15. Since $15 - 6 = 9$, write 9 in the hundredths place as part of the answer. From here, move to the tenths column and subtract. Since $3 - 5$ results in a negative number, we need to borrow from the ones place. Cross out the 8 in the ones place and replace it with 7 since we are taking 1 away. Next, write the borrowed 1 in front of the 3 in the tenths place to get 13. Since $13 - 5 = 8$, write 8 in the tenths place as part of the answer. Finally, move to the ones column and subtract. Since $7 - 0 = 7$, write 7 in the ones place as part of the answer. Therefore, $\$8.45 - \$\,0.56 = \$7.89$, so the correct answer is C.

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 8 .45      8 .45      8 .45      8 .45
-0 .56     -0 .56     -0 .56     -0 .56
                9         .89        7 .89
```

Question: 5

What is the sum of 0.77 and 0.54?

a. 0.131
b. 0.20
c. 1.31
d. 2.00

Answer: C

Explanation:

To find the sum of two numbers with decimals, we will line the numbers vertically with the decimal and add. We will bring the decimal down into the answer where it is lined up. For this problem, when we line the numbers vertically with the decimal and add, we start by adding 7 and 4, which is II, I gets carried over to the next column. Then we add 7, 5 and I, which is 13, the I gets carried over again. Lastly, we add 1, 0 and 0, which is 1. Then we will bring the decimal down where it lines up with the answer, and we find that the sum of 0.77 and 0.54 is 1.31.

$$\begin{array}{r} {}^{1}\quad {}^{1} \\ 0.77 \\ +0.54 \\ \hline 1.3^{1} \end{array}$$

Question: 6

156 ÷ 4 =

a. 27
b. 35
c. 13
d. 39

Answer: D

Explanation:

The correct answer is 39. This can be found by using long division.

$$\begin{array}{r} 39 \\ 4\overline{)\,156} \\ -12 \\ \hline 36 \\ -36 \\ \hline 0 \end{array}$$

Question: 7

Lex charges $25 to mow a lawn. He spends $80 a week on fuel for his lawn mower. Which equation can be used to model this situation, where *x* is the number of lawns Lex mows in one week and *y* is the total amount of money that he makes in one week?

a. $x = 25y - 80$
b. $x = 80y - 25$
c. $y = 25x - 80$
d. $y = 80x - 25$

Answer: C

Explanation:

The equation that can model this situation would have to have the amount of money Lex spends each week as the constant, or y-intercept, and the rate, or the slope, would be the amount of money he charges for each lawn he mows. Therefore, the best equation to model this situation is $y = 25x - 80$.

Question: 8

The equation $y - 14 = 63$ is given. What is the value of y?

a. $y = 49$
b. $y = 57$
c. $y = 71$
d. $y = 77$

Answer: D

Explanation:

To find the value of y, we ask the question, what is happening to y? The answer is that 14 is being subtracted from y, so we do the opposite operation, which is addition. We will add 14 to both sides of the equation. On the left side we will be left with y, and on the right side we will add 63 and 14 to get 77, which is the value of y.

Question: 9

The equation $\frac{y}{17} = 22$ is given. What is the value of y?

a. $y = 5$
b. $y = 39$
c. $y = 110$
d. $y = 374$

Answer: D

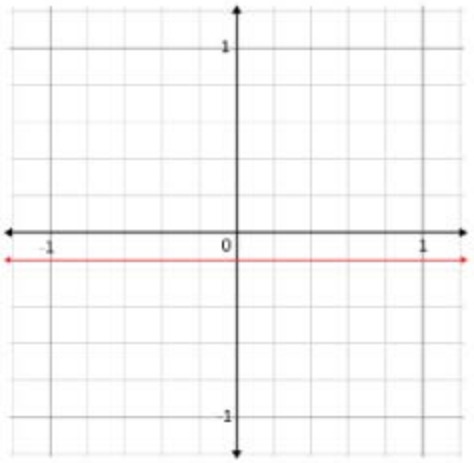
Explanation:

To find the value of y, we will start by isolating the y on one side of the equation. Since y is being divided by 17, we will multiply both sides of the equation by 17. On the left side of the equation, we will be left with y. On the right side of the equation, we will multiply 22 by 17 to get 374, which is the value of y.

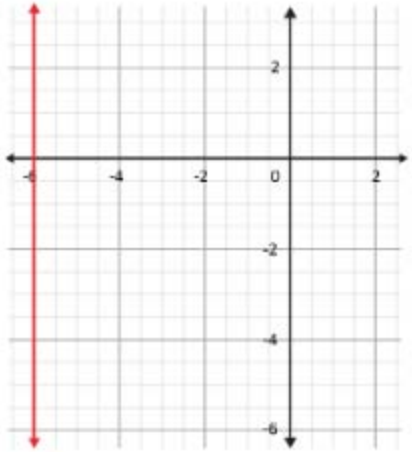
Question: 10

Which graph represents the linear equation $y = -6$?

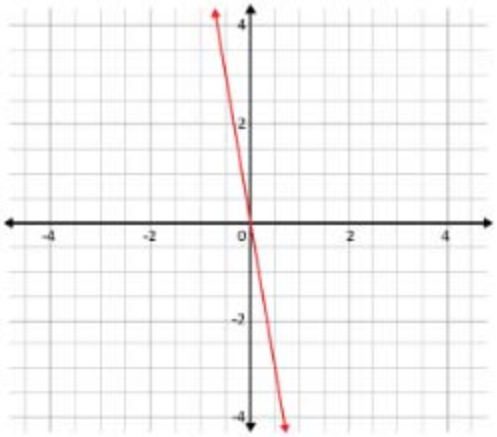
a.



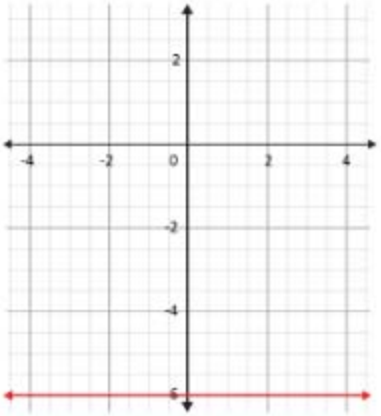
c.



b.



d.



Answer: D

Explanation:

In the linear equation $y = -6$, the value of y is –6 for every value of x. The graph for $y = -6$ looks like a horizontal line intersecting the y-axis at point $(0, -6)$. Therefore, the correct answer is D.

Question: 11

It is reasonable to infer that Martin and Beth's relationship is strained because:

A. Martin recently lost his job.
B. Martin was unfaithful to Beth.
C. Martin works too much.
D. Martin does not want to go to the movies.

Answer: B

Explanation:
This question is concerned with the main idea of the passage. Although the passage is not explicit about why Martin and Beth's relationship is strained, the right answer can be found by eliminating a number of answer choices. Choice A can be eliminated because Martin has not lost his job—he receives a page at the end of the passage concerning one of his patients. Choice B is not contradicted by the passage, and the reader is told that Martin and Mary were once together. Choices C and D can be eliminated because Beth expects Martin to leave her, which would not be explained by his workload or movie preferences. The best choice, then, is B.

Question: 12

According to Beth, the word fine means:

A. "Good"
B. "Precious"
C. 'Very good"
D. Nothing—it was a meaningless word

Answer: D

Explanation:
This question asks for the definition of fine within the passage. Fine can mean "good," "precious," or "sharp," but this question asks for the meaning of fine within the passage itself. Choices A, B, and C are inappropriate because Beth says that fine used to mean these things but does not any longer. Choice D is the best answer because Beth says fine was "a meaningless word, an excuse not to tell other people what was on your mind."

Question: 13

The best definition of the underlined word, rapport, is:

A. A close relationship
B. A sense of well-being
C. A common goal
D. Loneliness

Answer: A

Explanation:
A rapport is a relationship based on mutual understanding. With this in mind, choice A might be a good answer, even though it is not an exact match. Choice B can be eliminated because it does not describe a relationship. Choice C can be eliminated because individuals can have a relationship based on mutual understanding without sharing a common goal. Choice D can be eliminated because loneliness has nothing to do with the definition of rapport.

Question: 14

Based on the passage, it is reasonable to infer that Martin is a:

A. Mechanic
B. Medical doctor
C. Dentist
D. Film director

Answer: B

Explanation:
This question asks the reader to make a conclusion based on details from the passage. The reader knows that (1) Martin wears a pager for his job, (2) he has patients, and (3) one of his patients is going into cardiac arrest. Choices A and D can be eliminated because mechanics and film directors do not see patients. Choice C seems like a possibility. After all, dentists see patients. Choice B is the best choice because if a person goes into cardiac arrest, it is more likely a medical doctor rather than a dentist would be paged.

Question: 15

Based on Beth's perception of her and Martin's relationship, it is reasonable to infer.

A. Martin is dissatisfied with his job.
B. Beth wants to have a baby.
C. Martin is going to leave Beth.
D. Martin and Beth have not known each other long.

Answer: C

Explanation:
This question asks the reader to make an inference about what is going to happen based on the passage. Choice A is inappropriate because the passage says nothing about Martin's level of satisfaction with his job. Choice B can be eliminated for a similar reason—the passage says nothing about Beth's desire for children. Choice C seems like a good choice because while Martin tells Beth he has to leave to go to work. the structure of the sentence immediately preceding this makes it seem as if Beth knows Martin is going to leave her: "Beth wasn't even sure she knew Martin anymore, but she was confident that it was only a matter of time before everything was not fine,' only a matter of time before he told her..." Choice D is inappropriate because Beth and Martin have had problems "over the past few months," and enjoyed a happier period before that, suggesting they have been together for a while. The best choice, then, is C.

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