

3



3

1

Which of the following expressions is equal to 0 for some value of  $x$  ?

- A)  $|x - 1| - 1$
- B)  $|x + 1| + 1$
- C)  $|1 - x| + 1$
- D)  $|x - 1| + 1$

2

$$f(x) = \frac{3}{2}x + b$$

In the function above,  $b$  is a constant. If  $f(6) = 7$ , what is the value of  $f(-2)$  ?

- A)  $-5$
- B)  $-2$
- C)  $1$
- D)  $7$

3

$$\frac{x}{y} = 6$$

$$4(y + 1) = x$$

If  $(x, y)$  is the solution to the system of equations above, what is the value of  $y$  ?

- A) 2
- B) 4
- C) 12
- D) 24

4

If  $f(x) = -2x + 5$ , what is  $f(-3x)$  equal to?

- A)  $-6x - 5$
- B)  $6x + 5$
- C)  $6x - 5$
- D)  $6x^2 - 15x$

# What Did Snidely Say After Filling His Car With Super Premium, TopTest, Power Plus Gasoline?



Solve each problem and find your answer in the rectangle below. Cross out the box that contains your answer. When you finish, write the letters from the remaining boxes in the spaces at the bottom of the page.

- 1 The Jelly Junior High school color is made by mixing red paint with yellow paint. The ratio of red to yellow is 3 to 5. How much red paint should be mixed with 20 oz of yellow? \_\_\_\_\_ oz
- 2 The Lawn Order lawnmower factory can produce 12 lawnmowers in 8 hours. How many hours will it take the factory to produce 30 lawnmowers? \_\_\_\_\_ h
- 3 An object that weighs 10 lb on Earth would weigh only 4 lb on Mars. If you weigh 95 lb on Earth, how much would you weigh on Mars? \_\_\_\_\_ lb
- 4 The ratio of orange juice to pineapple juice in Tropical Treat punch is 4 to 3. Bill has 64 oz of orange juice. How much pineapple juice does he need? \_\_\_\_\_ oz
- 5 A cookie recipe for 60 cookies calls for 4 cups of flour. How much flour is needed to make 90 cookies? \_\_\_\_\_ cups
- 6 Jose can read 7 pages of his book in 5 minutes. At this rate, how long will it take him to read the entire 175-page book? \_\_\_\_\_ min
- 7 While exercising, Julie found that her heart was beating 12 times every 5 seconds. How many times was it beating per minute (60 seconds)? \_\_\_\_\_
- 8 If there are 1,200 calories in 8 oz of hot fudge, how many calories are in 3 oz of hot fudge? \_\_\_\_\_ cal
- 9 At a certain college, the ratio of men to women is 6 to 5. If there are 1,500 men, how many women are there? \_\_\_\_\_
- 10 One of the world's largest stained-glass windows is at Kennedy international Airport in New York. It is a rectangle with a height to length ratio of 2 to 25. If the window is 24 feet high, how long is it? \_\_\_\_\_ ft

HI	PU	TA	KE	EP	JU	NK	IN
450	48	1,210	300	12	125	340	20
GO	TO	HO	OD	NE	ED	GA	SS
136	1,250	6	15	40	144	38	7

  

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