*see answers on next page

4.6 Puzzle Time

What Should You Know If You Want To Become A Lion Tamer?

Write the letter of each answer in the box containing the exercise number.

Write an equation of the line that passes through the points.

Answers

H 1. $(0, 3), (1, 4)$ A 2. $(0, 0), (5, -2)$

E 3. $(-2, 0), (0, 4)$ $Y=\frac{0}{3}x-3$ 4. $(-3, 2), (0, -3)$

E 5. $(-7, 4), (0, 4)$ T 6. $(0, -8), (4, 8)$

O 7. $(0, -2), (-5, -2)$ N 8. $(-12, -9), (0, -3)$

$Y=-2$
T 9. $(0, 10), (5, 0)$ H 10. $(-14, 12), (0, 6)$

L 11. $(0, -6), (6, -24)$ I 12. $(0, -15), (5, 0)$

N 13. You are planning to make a scrapbook. The album costs \$20 and each of the scrapbook papers costs an additional \$1. Write an equation that represents the cost of the completed scrapbook where x represents the number of scrapbook papers you purchase.

M 14. A hot tub that holds 300 gallons of water drains at a rate of 8 gallons per minute. Write an equation that represents how many gallons of water are left in the tub after it has drained for x minutes.

R 15. An elevator in a tall building is at a point 180 feet above the ground. The elevator descends at a rate of 12 feet per second. Write an equation that represents how far above the ground the elevator is after descending for x seconds.

Answers

T. $y = -2x + 10$

N. $y = \frac{1}{2}x - 3$

H. $y = x + 3$

R. $y = -12x + 180$

E. $y = 2x + 4$

A. $y = -\frac{2}{5}x$

H. $y = -\frac{3}{7}x + 6$

N. $y = x + 20$

E. $y = 4$

T. $y = 4x - 8$

I. $y = 3x - 15$

L. $y = -3x - 6$

M. $y = -8x + 300$

O. $y = -2$

O. $y = -\frac{5}{3}x - 3$

14	7	15	3		6	10	2	13		9	1	5		11	12	4	8
M	O	R	E		T	H	A	N		T	H	E		L	I	O	N