



Puzzle Time

How Do Kangaroos Travel Across The Ocean?

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

Write the linear equation in slope-intercept form.

1. $3x + y = 8$ 2. $9x - y = \frac{1}{3}$
 3. $-\frac{1}{4}x + y = 3$ 4. $2x - 7y = 12$

Find the x - and y -intercepts of the linear equation.

5. $-3x + 5y = 15$ 6. $2x - y = 4$
 7. $4x - 9y = 36$ 8. $x + \frac{1}{3}y = -3$
 9. $\frac{2}{5}x - \frac{3}{4}y = 12$ 10. $7.6x + 15.2y = 38$
11. The booster club sells popcorn at basketball games for \$0.75 per bag. Their cost for supplies is \$12. The equation $-0.75x + y = -12$ represents the booster club's income y after selling x bags of popcorn. Find the x - and y -intercepts of the linear equation.
12. You upload digital photos to an online photo processing website. You can print 4-inch-by-6-inch photos for \$0.30 each and 5-inch-by-7-inch photos for \$0.75 each. The linear equation $0.30x + 0.75y = 15$ represents the ways you can print x 4-inch-by-6-inch photos and y 5-inch-by-7-inch photos for \$15. Find the x - and y -intercepts of the linear equation.

Answers

H. $y = \frac{2}{7}x - \frac{12}{7}$

S. x -intercept: 5;
 y -intercept: 2.5

H. x -intercept: -3 ;
 y -intercept: -9

J. x -intercept: 50;
 y -intercept: 20

M. x -intercept: 2;
 y -intercept: -4

Y. x -intercept: 30;
 y -intercept: -16

U. x -intercept: 9;
 y -intercept: -4

P. x -intercept: 16;
 y -intercept: -12

T. $y = -3x + 8$

E. x -intercept: -5 ;
 y -intercept: 3

P. $y = 9x - \frac{1}{3}$

I. $y = \frac{1}{4}x + 3$

1	4	5	9		12	7	6	2		10	8	3	11
---	---	---	---	--	----	---	---	---	--	----	---	---	----