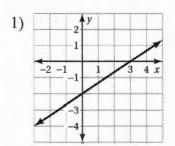
## 4.5 Graphing Linear Equations in Standard Form

Use the graph to determine the x- and y-intercepts.

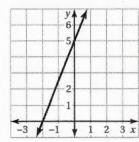


x-intercept

(3,0)

y-intercept





x-intercept

(-2,0)

y-intercept

(5,0)

Graph the linear equations using intercepts. Make sure you label the number of the problem next to the graph of the linear equation.

3) 
$$4x + y = 8$$

x-intercept 4210=8

x= Z (2,0)

y-intercept 4(0) + y = 8

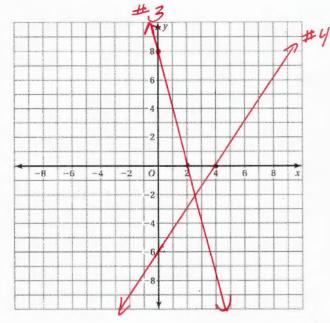
4) 
$$3x - 2y = 12$$

x-intercept

32-2(0)=12 34=12 x=4 (4,0)

y-intercept

3(0)-24=12 -zy=12 y=-6 (0,-6)



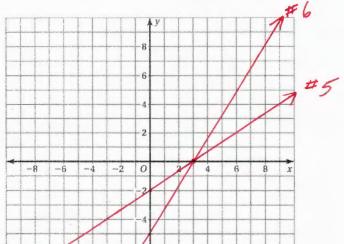
$$5) \quad 2x - 3y = 6$$

x-intercept

2x-3(0)=6 2x=6

(3,0)

y-intercept



6) 
$$5x - 3y = 15$$

x-intercept

5x-3/0)=15

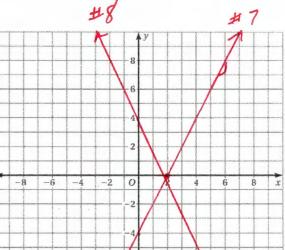
x-intercept  

$$2.5x - 1.25(6) = 5$$
  
 $2.5x = 5$   
 $2.5x = 5$   
 $2.5x = 5$   
 $2.5y = 5$ 

-Intercept  

$$2.5(0) - 1.25y = 5$$
  
 $-1.75y = 5$   
 $y = -4$ 





8) 
$$\frac{1}{5}x + \frac{1}{10}y = \frac{2}{5}$$

$$x$$
-intercept  
 $\frac{1}{5}x + \frac{1}{10}60 = \frac{2}{5}$ 

$$\frac{1}{5}x = \frac{2}{5}$$

$$x = 2$$

$$(2,0)$$

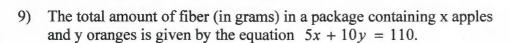
$$\frac{1}{5}x + \frac{1}{10}y = \frac{1}{5}$$
x-intercept
$$\frac{1}{5}x + \frac{1}{10}go) = \frac{2}{5}$$

$$\frac{1}{5}x = \frac{2}{5}$$

$$x = \frac{2}{5}$$

$$(2,0)$$

$$(4,0)$$



a) Find and interpret the y-intercept.

(0,11)

11 oranges have 110 grams of fixer.

b) Find and interpret the x-intercept.

(22,0)

22 apples have 110 grams of

How many grams of fiber does an orange contain?

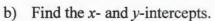
10 grams of fiker

How many grams of fiber does an apple contain?

5 grams of fiber

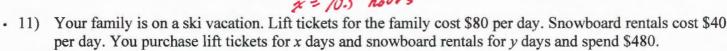
Is it possible for the package to contain 15 apples? Explain.

- 10) You have two jobs. You earn \$8 for each our x that you work as a restaurant host and \$6 for each hour y that you work as a hair washer. Your earnings for the pay period are \$144.
  - a) Write an equation in standard form that models your earnings. 8x + 6y = 1444



- c) Graph the equation.
- d) You worked 10 hours as a hair washer. How many hours did you work as a host?





a) Write an equation in standard form that models your earnings.

b) Find the x- and y-intercepts.

- c) Graph the equation.
- d) You rent snowboards for 2 days. How many days did you purchase lift tickets?

$$80 \times 1 \times 40(z) = 480$$

$$80 \times 1 \times 80 = 480$$

$$90 = 400$$

$$100 \times 200$$

$$100 \times 200$$

