24) What is the value of x in the proportion $\frac{x+8}{15} = \frac{x}{5}$?

25) Solve $\frac{2y+3}{2} = \frac{4y-1}{5}$

26) Solve $\frac{3x}{2} = \frac{18}{6}$

27) If 10 apples cost 25 cents, how much would 22 apples cost?

28) 7 out of 12 students surveyed enjoyed playing basketball. If 696 students are surveyed, how many would you expect to say they enjoy playing basketball?

A) 399
B) 290
C) 198
D) 406

29) What is the solution to the inequality $8 - x < 23$?

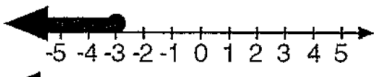
A) $x < -15$
B) $x > -15$
C) $x > 31$
D) $x < 31$

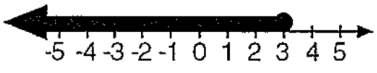
30) Solve the given inequality for the domain of the set of real numbers:

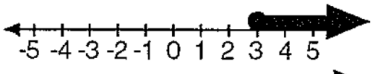
$5x - 18 > 2(4x - 15)$

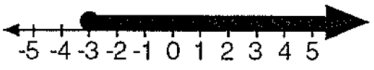
A) $x > 4$
B) $x < 4$
C) $x < -4$
D) $x > -4$

31) Which of the following represents the solution set and graph for the inequality $2x - 7 + 3x > 8$?

A) $x < -3$, 

B) $x < 3$, 

C) $x > 3$, 

D) $x > -3$, 

Solve the following inequalities:

32) $5 - (6 - x) < 3$

33) $(4x - 8) + (2x + 7) > x + 4$

34) Julio's wages vary directly as the number of hours that he works. If his wages for 5 hours are $29.75, how much will he earn for 30 hours? [*Show all work.*]