## Name:

Circle the values that provide a solution or solutions to the given inequality.

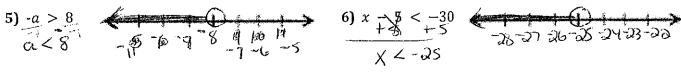
1) 2b-5 < 13 {(6(8,14,16)} |2-52|3 | |6-52|3 | |28-62|3 | |32-52|3 | |-5|-5 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32-52|3 | |32

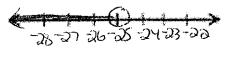
$$\frac{1}{5}$$
  $\frac{5.5}{500}$   $\frac{2x + 1.5}{-1.5}$ 

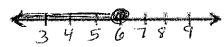
49 (2X 24X X>2

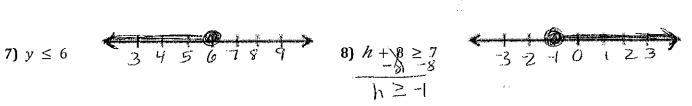
4) 
$$y - 2y \ge 1$$
  
- $y \ge 15$ 

Graph the following inequalities on a number line.









9) Each cafeteria table can seat no more than 8 students.

$$t \leq 8$$



10) You must be at least 48 inches tall to ride the roller coaster.

$$\chi \ge 48$$



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11)	Josh has scored 35 points so far this basketball season. Th	ie schoo	ol record is	85 points. How many
	more points does Josh need to score to break the record?	Χ =	points	needed

inequality: 
$$\frac{X + 35 > 86}{-33 - 35}$$

solution: 
$$\chi > 50$$

12) Five times the difference of a number and 8 is at most 105. What are the possible solutions? 
$$X = A + A$$



inequality: 
$$5(\chi - 8) \le 105$$

solution: 
$$X = Q^{\circ}$$

most 105. What are the possible solutions?

solution: 
$$\underline{X} \stackrel{\checkmark}{=} \underline{29}$$
 $\underline{5} \stackrel{\cancel{X}}{=} \underbrace{40} \stackrel{\cancel{5}}{=} \underbrace{40} \stackrel{\cancel{5}$ 

inequality: 
$$6.75h + 15 \le 65$$

solution: 
$$h \leq 7.407$$

4) Admission to the state fair costs \$6 and each ride costs \$1.25. If Emmanuel wants to spend no more than \$20 at the fair, how many rides can he ride? となったいはい

inequality: 
$$(s + 1.25 \times 4.20)$$

solution: 
$$\chi \leq 11.2$$
  $\chi + 1.25x \leq 20$ 

15) Half of the sum of a number and 4 is less than 14. What is the number? 
$$\frac{(x+4)}{(x+4)} = \frac{(x+4)}{(x+4)} = \frac{(x+4)$$

What is the number? 
$$1.25$$

inequality: 
$$\frac{(X+4)}{2}$$
  $< 14$ 

solution: 
$$X \leftarrow 24$$
 X

solution: 
$$X = 11.2$$
  $X = 20$ 

4. What is the number?  $1.25 \times 4 \times 1.25$ 

solution:  $X = 11.2$ 
 $2 \times 4 \times 1.25$ 
 $2 \times 4 \times 1.25$ 
 $2 \times 4 \times 1.25$ 

solution:  $2 \times 4 \times 1.25$ 
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 $2 \times 4 \times 1.25$ 

16) 
$$4x + 5 < -7$$
 $-9 - 5$ 
 $4x + 5 < -7$ 
 $4$ 

solution: 
$$\underline{X} \underline{4} - \underline{3}$$

17) 
$$\frac{x}{4+3} = -23$$
  
 $\frac{x}{4+3} = -20.4$   $x \le -80$ 

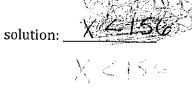
solution: 
$$\chi = 80$$

18) 
$$50 < -5x + 5 + 75x$$
  
 $50 < -10x + 5$   
 $55 < -10x + 5$   
 $-5,5 > X$ 

solution: 
$$X \le -5.5$$

19) 
$$3(-2x+4) > 4x-8$$

19) 
$$3(-2x+4) > 4x-8$$
  
 $-6x+4 > 4x-8$   
 $-6x+4 > 4x-8$ 



$$\frac{12/+\frac{x}{-6} - \frac{14}{-12}}{-6 \cdot \frac{x}{-6} - \frac{26}{-26} - \frac{26}{-26} - \frac{14}{-6}}$$