

$$\begin{aligned} \textcircled{12} \quad a. \quad & 3(2) - 8 > 22 \\ & 6 - 8 > 22 \\ & -2 > 22 \\ & \underline{\underline{\text{NO}}} \end{aligned}$$

$$\begin{aligned} b. \quad & 3(0) - 8 > 22 \\ & 0 - 8 > 22 \\ & -8 > 22 \\ & \underline{\underline{\text{NO}}} \end{aligned}$$

$$\begin{aligned} c. \quad & 3(5) - 8 > 22 \\ & 15 - 8 > 22 \\ & 7 > 22 \\ & \underline{\underline{\text{NO}}} \end{aligned}$$

$$\begin{aligned} \textcircled{13} \quad a. \quad & 8(2) - 6 \leq 10 \\ & 16 - 6 \leq 10 \\ & 10 \leq 10 \\ & \underline{\underline{\text{yes}}} \end{aligned}$$

$$\begin{aligned} b. \quad & 8(3) - 6 \leq 10 \\ & 24 - 6 \leq 10 \\ & 18 \leq 10 \\ & \underline{\underline{\text{NO}}} \end{aligned}$$

$$\begin{aligned} c. \quad & 8(-1) - 6 \leq 10 \\ & -8 - 6 \leq 10 \\ & -14 \leq 10 \\ & \underline{\underline{\text{yes}}} \end{aligned}$$

$$\begin{aligned} \textcircled{14} \quad a. \quad & 4(0) + 2 < -6 \\ & 0 + 2 < -6 \\ & 2 < -6 \\ & \underline{\underline{\text{NO}}} \end{aligned}$$

$$\begin{aligned} b. \quad & 4(-2) + 2 < -6 \\ & -8 + 2 < -6 \\ & -6 < -6 \\ & \underline{\underline{\text{NO}}} \end{aligned}$$

$$\begin{aligned} c. \quad & 4(1) + 2 < -6 \\ & 4 + 2 < -6 \\ & 6 < -6 \\ & \underline{\underline{\text{NO}}} \end{aligned}$$

$$\begin{aligned} \textcircled{15} \quad a. \quad & \frac{6 - .5}{.5} \geq 11 \\ & \frac{5.5}{.5} \geq 11 \\ & 11 \geq 11 \\ & \underline{\underline{\text{yes}}} \end{aligned}$$

$$\begin{aligned} b. \quad & \frac{6-2}{2} \geq 11 \\ & \frac{4}{2} \geq 11 \\ & 2 \geq 11 \\ & \underline{\underline{\text{NO}}} \end{aligned}$$

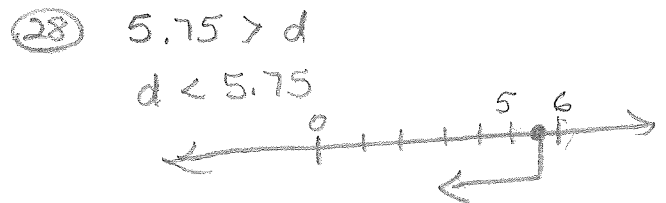
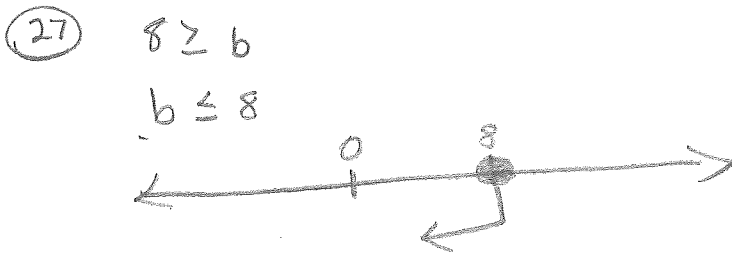
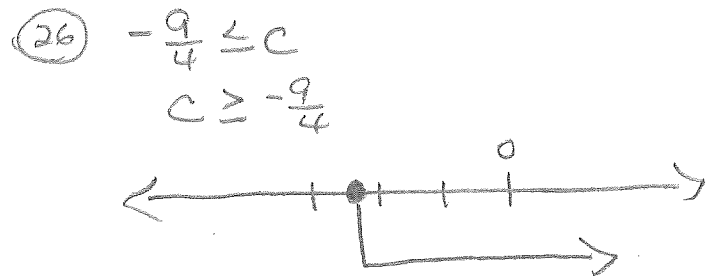
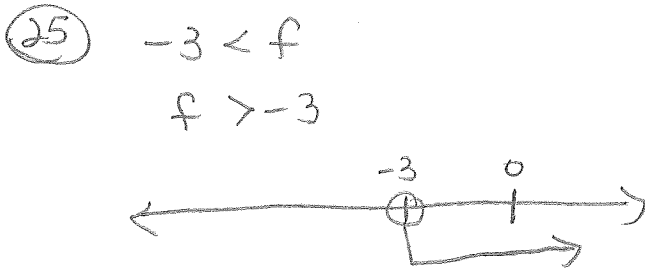
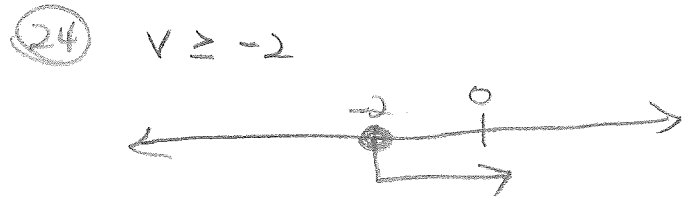
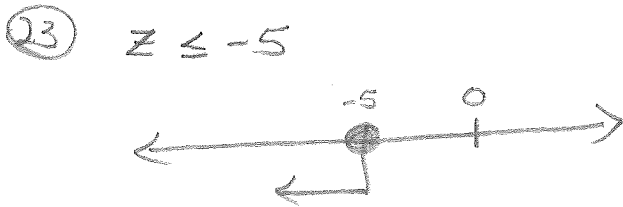
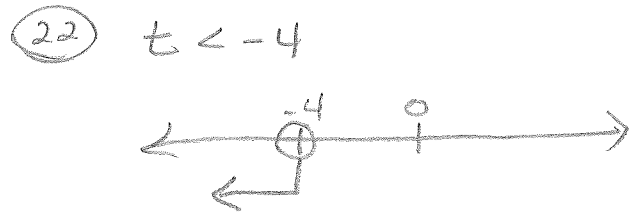
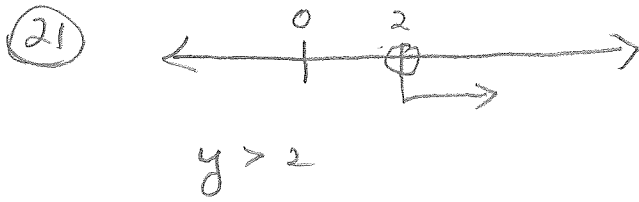
$$\begin{aligned} c. \quad & \frac{6-4}{4} \geq 11 \\ & \frac{2}{4} \geq 11 \\ & \frac{1}{2} \geq 11 \\ & \underline{\underline{\text{NO}}} \end{aligned}$$

$$\begin{aligned} \textcircled{16} \quad & -10(-10-3) < 54 \\ & -10(-13) < 54 \\ & 130 < 54 \\ & \underline{\underline{\text{NO}}} \end{aligned}$$

$$\begin{aligned} b. \quad & 0(0-3) < 54 \\ & 0 < 54 \\ & \underline{\underline{\text{yes}}} \end{aligned}$$

$$\begin{aligned} c. \quad & 9(9-3) < 54 \\ & 9(6) < 54 \\ & 54 < 54 \\ & \underline{\underline{\text{NO}}} \end{aligned}$$

(17) D (18) B (19) A (20) C



(29) $x > -4$ (30) $x \leq 8$

(31) $x \geq 2$ (32) $x < -7$

(33) $x \geq 5$ (34) $x < 2$

35 $p = \#$ of people

$$p \leq 172$$

36 $a =$ age of person

$$a \geq 35$$

37 $w = \#$ of watts

$$w \leq 75$$

38 $s = \#$ of students

$$s \geq 475$$

39 $m =$ amount of money

$$m > 20,000$$