

8a) Let  $y$  be the age in years getting a discount

$$y < 3 \text{ or } y > 65$$



8b)

9a) Let  $t$  be the temperatures that astronauts can endure.

$$-157 \leq t \leq 121$$

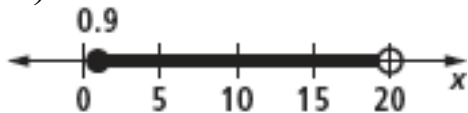


9b)

10)  $x \geq -1$



11)  $.9 \leq x < 20$



12)  $2 \leq x < 9.6$



13)

14) Let  $h$  be the number of hours for which the band will be hired.  $1200 \leq 950 + 275h < 2300$   
So,  $1 \leq h \leq 4$  assuming the band charges the full hourly rate for fractions of the hour.

15)  $6.5 \pm 20$

19a)  $r = \frac{d}{t}$

19b) 61.25 mph

20) No solutions

21) All real numbers

23) The second store

24b) 11

24c) 195

25a) Mathematician would view it as people who were **both** women and children could go first. The probable meaning would be women **or** children.

25b) Sample: "Everybody got As and Bs on the test" (Can't get both grades!)

3)  $A=6$  or  $A = -6$

4) no solutions

5)  $C = 0$

7a)  $x = -2$  or  $x = 5$

7b)  $-2 < x < 5$

7c)  $x < -2$  or  $x > 5$