HW

Pg. 119 (9, 10, 11-29 odd, 34, 36, 39)

(9) Trisha $\frac{10\text{ km}}{2.5\text{ h}} = \frac{4\text{ km}}{\text{h}}$

Jason $\frac{7.5\text{ km}}{2\text{ h}} = \frac{3.75\text{ km}}{\text{hr}}$

Olga $\frac{9.5\text{ km}}{2.25\text{ h}} = 4.22\frac{\text{km}}{\text{h}}$

(divide to find unit rate - km/1 hr)

Olga had the fastest rate → 4.22 km/h

(10) mi^2 → means square miles (1 mi × 1 mi) (area measurement)

Bellingham $\frac{74,547}{25.4} \approx 2,934.92$

2,935 people/mi^2

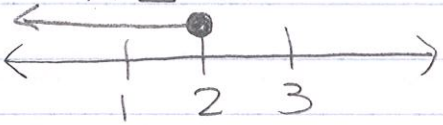
* can't have a decimal of a person

Bakersfield $\frac{295,536}{113.1\ mi^2} \approx 2,613$ people/mi^2

Pg. 204 (23-34)

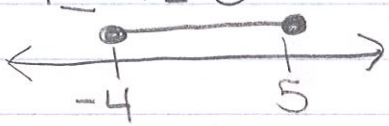
(23) $(-\infty, 2]$

$x \leq 2$



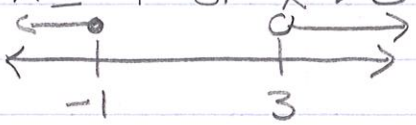
(24) $[-4, 5]$

$-4 \leq x \leq 5$



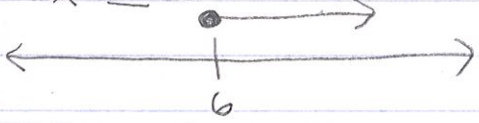
(25) $(-\infty, -1]$ or $(3, \infty)$

$x \leq -1$ or $x > 3$



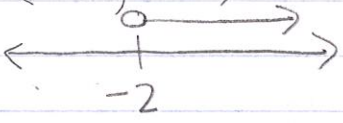
(26) $[6, \infty)$

$x \geq 6$



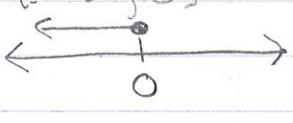
(27) $x > -2$

$(-2, \infty)$



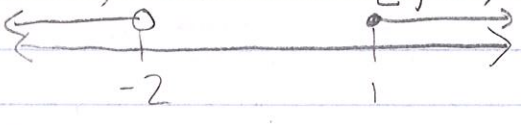
(28) $x \leq 0$

$(-\infty, 0]$



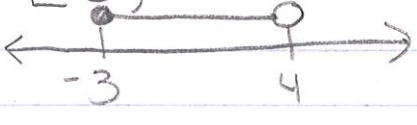
(29) $x < -2$ or $x \geq 1$

$(-\infty, -2)$ or $[1, \infty)$



(30) $-3 \leq x < 4$

$[-3, 4)$



(31) $7 < x + 6 \leq 12$

$-6 \quad -6 \quad -6$

$1 < x \leq 6$

$(1, 6]$

(32) $-9 < 3m + 6 \leq 18$

$-6 \quad -6 \quad -6$

$\frac{-15}{3} < \frac{3m}{3} \leq \frac{12}{3}$

$-5 < m \leq 4$

$(-5, 4]$

(33) $f + 14 < 9$ or $-9f \leq -45$

$-14 \quad -14 \qquad \frac{-9f}{-9} \leq \frac{-45}{-9}$

$f < -5$ or $f \geq 5$ FLIP!

$(-\infty, -5)$ or $[5, \infty)$

(34) $12h - 3 \geq 15h$ or $5 > -.2h + 10$

$-12h \quad -12h \qquad -10 \quad -10$

$\frac{-3}{3} \geq \frac{3h}{3}$ or $\frac{-5}{-.2} > \frac{-.2h}{-.2}$ FLIP!

$-1 \geq h$ or $25 < h$

$h \leq -1$ or $h > 25$

$(-\infty, -1]$ or $(25, \infty)$