

PG 181 10, 14, 16, 18, 22, 24 50-57

~~MATCH~~ 58, 59

10) $1 \leq \frac{-5}{4}y$

$4 \cdot 1 \leq \frac{-5}{4}y \cdot 4$

$\frac{4}{-5} \leq \frac{-5y}{-5}$ SWITCH SIGN

$\frac{4}{-5} \geq y$ WHEN \div by -

$y \leq \frac{4}{-5}$ SWITCH SIGN WHEN MOVE



18. $-5 \geq \frac{-5}{9}y$

$\frac{-9}{5} \frac{-5}{1} \geq \frac{-5y}{9} \cdot \frac{9}{8}$ SWITCH SIGN WHEN X BY -

$+9 \leq y$ SWITCH SIGN WHEN MOVE VARIAB



14. $8 > \frac{2}{3}k$

$3 \cdot 8 > \frac{2}{3}k \cdot 3$

$\frac{24}{2} > \frac{2k}{2}$

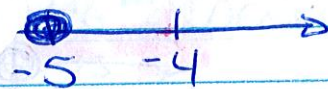
$12 > k$ SWITCH SIGN
 $k < 12$ WHEN MOVE TO OTHER SIDE



22. $-4w \leq 20$

$\frac{-4w}{-4} \leq \frac{20}{-4}$

$w \geq -5$



24) $5b < -7d$

$\frac{5b}{-7} < \frac{-7d}{-7}$ SWITCH SIGN WHEN?

$-8 > d$
 $d < -8$ SWITCH SIGN TO $>$ WHEN \div by -



16. $\frac{-3}{2}b < 6$

$\frac{-3}{2} \cdot \frac{-2}{2} \cdot \frac{-3}{2}b < 6 \cdot \frac{-2}{2}$

$b > -4$ SWITCH SIGN WHEN MOVE TO OTHER SIDE



$$50. \begin{aligned} -4.5 &> 9p \\ -4.5 &> 9p \\ \frac{-4.5}{9} &< \frac{9p}{9} \\ -0.5 &> p \\ p &< -0.5 \end{aligned}$$



$$53. 1.5 \leq \frac{1}{2}c$$

$$2 \cdot 1.5 \leq \frac{1}{2}c \cdot 2$$

$$3 \leq c$$

$$c \geq 3$$



$$51. -1 \geq \frac{t}{3}$$

$$3 \cdot -1 \geq \frac{t}{3} \cdot 3$$

$$-3 \geq t$$

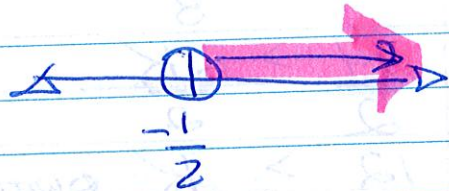
$$t \leq -3$$



$$54. -8u < 4$$

$$\frac{-8u}{-8} < \frac{4}{-8} \quad \text{Switch Sign}$$

$$u > -\frac{1}{2}$$

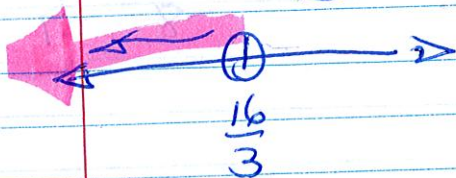


$$52. \frac{3}{4}n < 4$$

$$4 \cdot \frac{3}{4}n < 4 \cdot 4$$

$$\frac{3n}{3} < \frac{16}{3}$$

$$n < \frac{16}{3}$$



$$55. \frac{n}{5} \leq -2$$

$$5 \cdot \frac{n}{5} \leq -2 \cdot 5$$

$$n \leq -10$$



$$56. -12 > 4a$$

$$-12 > 4a$$

$$4 \quad 4$$

$$-3 > a$$

$$a < -3$$

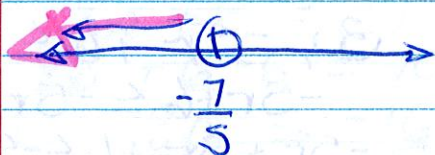


$$57. 1 < \frac{5}{-7} s$$

$$\frac{-7}{5} \cdot 1 < \frac{5}{-7} s \cdot \frac{-7}{5}$$

$$-\frac{7}{5} > s$$

$$s < -\frac{7}{5}$$



$$58. \quad \frac{55 \text{ mi}}{\text{hr}} \quad 400 \text{ mi} \\ \text{day}$$

$$x = \text{hours}$$

$$\frac{55x}{55} \geq \frac{400}{55}$$

$$x = 7.27$$

59. IF THE MOST EXPENSIVE SANDWICHES AND DRINKS ARE ORDERED, THE COST IS

$$3(7) + 3(2) = 27$$

LEAVING \$3.

IF THE MOST

EXPENSIVE SNACK

IS BOUGHT, THE

LEAST NUMBER OF

SNACKS YOU CAN

AFFORD IS 1.

IF THE LEAST EXPENSIVE

SANDWICH AND

DRINKS ARE ORDERED,

THE COST IS

$$3(4) + 3(4) = 15$$

LEAVING \$15.

IF THE LEAST

EXPENSIVE SNACK IS

BOUGHT, THE

GREATEST NUMBER

OF SNACKS YOU

CAN AFFORD

IS 15.