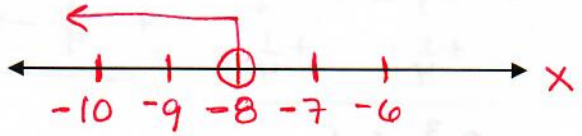
ALGEBRA 1
3-2 PRACTICE WORKSHEET

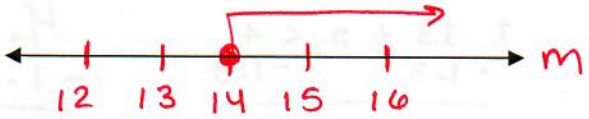
Name KEY
Date _____

Solve and graph each inequality. Use PROPER FORMATTING!

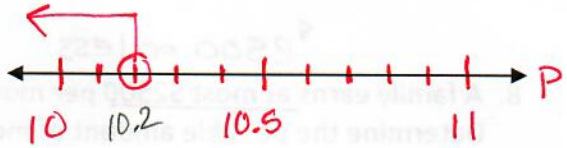
1. $x + 3 < -5$
$-3 \quad -3$
$x < -8$



2. $2 \leq m - 12$
$+12 \quad +12$
$14 \leq m$
$m \geq 14$

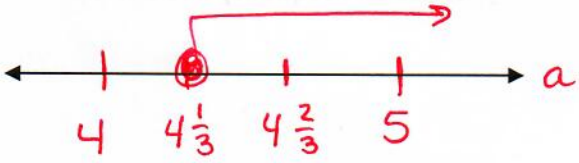


3. $6.8 > p - 3.4$
$+3.4 \quad +3.4$
$10.2 > p$
$p < 10.2$



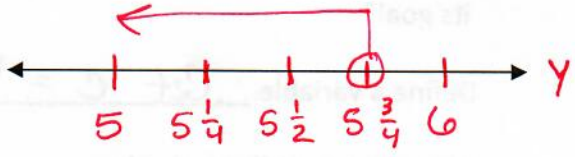
4. $5 \leq a + \frac{2}{3}$
$-\frac{2}{3} \quad -\frac{2}{3}$
$4\frac{1}{3} \leq a$
$a \geq 4\frac{1}{3}$

$4\ \frac{3}{3}$
$-\ \frac{2}{3}$
$4\ \frac{1}{3}$



5. $\frac{1}{4} + y < 6$
$-\frac{1}{4} \quad -\frac{1}{4}$
$y < 5\frac{3}{4}$

$5\ \frac{4}{4}$
$-\ \frac{1}{4}$
$5\ \frac{3}{4}$



Solve and graph each inequality. Use PROPER FORMATTING!

6. $2\frac{1}{2} \leq b - \frac{1}{4}$

$+\frac{1}{4} \qquad +\frac{1}{4}$

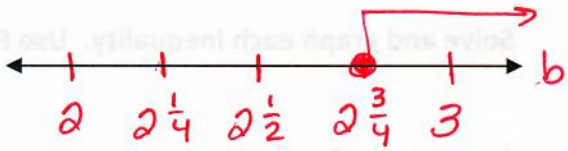
$2\frac{3}{4} \leq b$

$b \geq 2\frac{3}{4}$

$2\frac{1}{2} \rightarrow 2\frac{2}{4}$

$+\ \frac{1}{4} \rightarrow +\ \frac{1}{4}$

$2\frac{3}{4}$



7. $1.3 + n < 4$

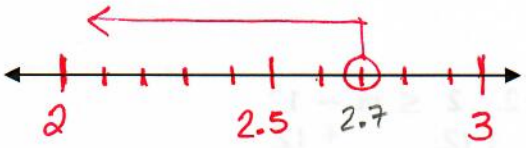
$-1.3 \qquad -1.3$

$n < 2.7$

4.0

-1.3

2.7



$2500 or less

8. A family earns at most $2500 per month. The family's monthly expenses are $2000. Determine the possible amount of money that the family could save each month.

Define a variable. let m = money left to save

Write an inequality and solve.

$m \leq 2500 - 2000$

$m \leq 500$

The family can save at most $500.

9. A school is having a canned food drive and wants to collect at least 1000 canned goods. The school has already collected 400 cans. At least how many more cans does the school need to reach its goal?

Define a variable. let c = # of cans needed to collect

Write an inequality and solve.

$c + 400 \geq 1000$

$-400 \qquad -400$

$c \geq 600$

The school needs to collect at least 600 more cans.