Pre-Algebra: Quiz Reivew: Sections 5-8 and 5-9   Name_____

Assignment #3   Date_____ Period_____

Solve each equation.

1) $-\dfrac{5}{3}x = -\dfrac{5}{6}$

2) $\dfrac{9}{2}n = -\dfrac{9}{20}$

3) $\dfrac{2}{3}x = 1\dfrac{1}{3}$

4) $\dfrac{1}{5}k = -\dfrac{9}{25}$

5) $\dfrac{3}{8}n = \dfrac{9}{16}$

6) $\dfrac{8}{5}m = \dfrac{24}{25}$

7) $\dfrac{4}{3}x = \dfrac{22}{15}$

8) $3x = \dfrac{3}{4}$

9) $\dfrac{1}{2}v = -\dfrac{13}{18}$

10) $\dfrac{3}{8}m = -\dfrac{3}{2}$

Simplify. Your answer should contain only positive exponents.

11) $(4r)^4$

12) $\left(8x^3\right)^3$

13) $\left(-2p^4\right)^3$

14) $\left(-3r^2\right)^2$

15) $(5n)^2$

16) $\left(7b^4\right)^2$

17) $(4n)^3$

18) $(3n^3)^4$

19) $(-5x^2)^4$

20) $(-4x^2)^3$

Solve each equation.
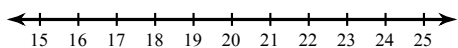
21) $k - 15 = -34$

22) $3n = -48$

23) $\dfrac{r}{6} = 9$
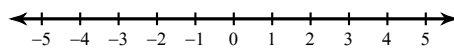
24) $-17x = 68$

25) $-5x = -45$

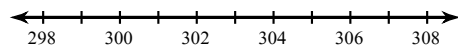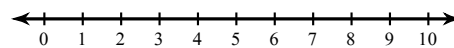**Solve each inequality and graph its solution.**

26) $m - 1 > 19$

27) $-11n \le -22$

28) $\dfrac{x}{15} < 20$

29) $17n < 102$

30) $-2b \ge 10$