Name: _____ Review and Color

**Color 1 - 5 the same color.**

1) Solve: $y = 6x - 14$
$y = -8x$

2) If $f(x) = 4x + 3$, find $f(-5)$.

3) Using 41, 50, 57, 60, 45, 41, 33, 41, 43, 44, find each:
Mean:
Median:
Mode:
Range:

4) Use the chart to find an equation to model the situation. Then determine how much it would cost for 18 people?

| Number of People | 4 | 6 | 8 | 10 | 12 |
|---|---|---|---|---|---|
| Cost (dollars) | 250 | 350 | 450 | 550 | 650 |

5) Write the equation of the line that passes through the points (2, 3) and (4, - 5).

**Color 6 - 10 the same color.**

6) Evaluate $y^2 - x$, when $x = 7$ and $y = 7$

7) Solve the system: $5x + y = 9$
$10x - 7y = -18$

8) Solve the equation: $2(x + 5) = -2$

9) Write the equation of the line that passes through the points (-1, 1) and (-2, -2)

10) Solve: $9x - 36 = 7x - 6$

**Color 11 - 15 the same color.**

11) Solve: $8x + y = -16$
$-3x + y = -5$

12) If $g(x) = x^2 + 4x - 17$, find $g(-1)$.

13) Solve: $-11 - 5x = 6(5x + 4)$

14) The population of the popular town of Smithville in 2003 was estimated to be 35,000 people with an annual rate of increase of about 2.4%. What will the population of the town be in 15 years?

15) Write the equation of the line that passes through the points (- 2, 4) and (3, - 6).

**Color 16 to 20 the same color.**

Name: _____ Review and Color

16) Use the chart to find an equation to best fit the data. Then, determine the number of people based on a cost of $144.

| Number of People | Cost (dollars) |
|---|---|
| 12 | 192 |
| 18 | 288 |
| 24 | 384 |
| 30 | 480 |
| 36 | 576 |
| 42 | 672 |

17) Matt bought a new car at a cost of $25,000. The car depreciates approximately 15% of its value each year. How much will it be worth in 7 years?

18) Solve: -3 + 5(x + 6) = 37

19) Solve the system: 5x + 4y = -14
3x + 6y = 6

20) Solve the system: y = 2x
3x + 3y = -18

**Color the 21 - 25 the same color.**

21) $12k - h^2$; use $h = 2$, and $k = 3$

22) $(6 + h^2 - j) \div 2$; use $h = 6$, and $j = 4$

23) $p^3 + 10 + m$; use $m = 9$, and $p = 3$

24) $6q + m - m$; use $m = 8$, and $q = 3$

25) $p^2m \div 4$; use $m = 4$, and $p = 7$