**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Score:\_\_\_\_\_\_\_\_\_\_\_\_\_**

Final Exam Review Topic: \_\_Solving Equations\_\_

**Solve each equation. Check your solution.**

**1.** *r* – 20 = −4 **2.** *t* – 6 = −16 **3.** *b* – 9 = −8

 *r* = 16 *t* = −10 *b* = 1

**4.** *y* + 12 = −3 **5.** *w* + 8 = −6 **6.** *n* + 3 = 20

 *y* = −15 *w* = −14 *n =* 17

**7.** 5*b* = 40 **8.** 34 = −2*x* **9.** −8*d* = 32

 *b* = 8 *x* = −17 *d* = −4

**10.** 10*n* = 5 **11.** $10=\frac{m}{7}$ **12.** $6=\frac{u}{-9}$

 *n* = ½ *m* = 70 *u* = −54

**13.** $-\frac{4}{7}b=16$ **14.** $-\frac{2}{5}d=\frac{4}{9}$ **15.** $\frac{3}{4}z=-\frac{5}{6}$

 *b* = −28 *d* = −10/9 *z* = −5/9

**16.** 2*h* + 9 = 21 **17.** 11 = 2*b* + 17 **18.** 6*p* – 5 = −17

 *h* = 6 *b* = −3 *p* = −2

**19.** $5+\frac{y}{8}=-3$ **20.** $-\frac{1}{2}x-7=-11$ **21.** $-\frac{1}{4}w+15=28$

 *y* = −64 *x* = 8 *w* = −52

**22.** 5 – 3*c =* 14 **23.** 9 – 5*y* = 19 **24.** −6 = 4 – 2*x*

 *c* = −3 *y* = −2 *x* = 5

**25.** 10 = 6*a +* 4 *–* 9*a* + *a* **26.** *y* + 5*y* + 11 = 35 **27.** 5*w* – 8*w* = −12

 *a* = −3 *y* = 4 *w* = 4

**28.** 6*h* + 5 + *h* = −30 **29.** –*n* + 9 – 2*n* – 1 = −13 **30.** 28 = 3*m* – 7*m*

*h* = −5 *n* = 7 *m* = −7

**31.** 7*a* + 10 = 2*a* **32.** −3(5 – 2*x*) = −15 – 4*x* **33.** 9*g* – 14 = 2*g*

 *a* = −2 *x* = 0 *g* = 2

**34.** $2\left(4x-1\right)=\frac{1}{2}(16x-4)$ **35.** $2z+7=4z+5$ **36.** 11*x* = 24 + 8*x*

 Any Number *z* = 1 *x* = 8