

Name: \_\_\_\_\_ Period: \_\_\_\_\_

Week 30 Homework Packet – 7<sup>th</sup> Grade Math Honors

**ASSIGNMENT DUE TUESDAY, MARCH 21, 2017**

Unit 4, Chapter 8 - Equations and Inequalities

Solve each two-step equation below. **Show each step!** You will not receive a stamp if you do not show each step.

1)  $4x + 5 = 21$

2)  $3m - 11 = 7$

3)  $\frac{k}{4} + 5 = 3$

4)  $6 - 3r = 12$

5)  $19 = 6y - 2$

6)  $13 - 8q = -19$

7)  $\frac{j+5}{3} = 4$

SCORE  
**/4**

WEEK SCORE  
**/12**

Stamp

Your friend has solved a series of equations and asks you if you can check them for him. Check each solution below to determine if they are correct by substituting your friend's answer into the original equation. **Show all work!**

8)  $2m + 7 = 15$                        **$m = 4$**

9)  $12 - \frac{t}{5} = 7$                        **$t = 25$**

10)  $3k - 14 = -2$                        **$k = -4$**

11)  $10q + 5 = 20$                        **$q = \frac{1}{2}$**

12)  $\frac{15}{n} + 4 = 7$                        **$n = 5$**

13)  $11 - 5r = -14$                        **$r = 5$**

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SCORE

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Stamp

**ASSIGNMENT DUE WED/THU, MARCH 22/23, 2017**

Unit 4, Chapter 8 - Equations and Inequalities

Solve each equation below. **Show all work!**

1)  $\frac{3}{4}d = 12$

2)  $\frac{5}{8}m = -15$

3)  $q + \frac{3}{4} = \frac{4}{3}$

4)  $2 - w = \frac{4}{5}$

5)  $\frac{3}{5}k = 21$

6)  $\frac{1}{3} + r = \frac{5}{6}$

7)  $\frac{2}{7}j = \frac{1}{4}$

Your friend has solved a series of equations and asks you if you can check them for him. Check each solution below to determine if they are correct by substituting your friend's answer into the original equation. **Show all work!**

8)  $\frac{4}{5}r = 20$                        **$r = 16$**

9)  $k + \frac{2}{3} = \frac{3}{2}$                        **$k = 5/6$**

10)  $-\frac{3}{8}w = -9$                        **$w = -24$**

11)  $\frac{2}{3}r = \frac{1}{2}$                        **$r = 3/4$**

12)  $\frac{4}{5}j = 10$                        **$j = 8$**

13)  $\frac{1}{5}x = 5$                        **$x = 1$**

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7<sup>th</sup> Grade Math Honors

SCORE

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Stamp

**ASSIGNMENT DUE FRIDAY, MARCH 24, 2017**

Unit 4, Chapter 8 - Equations and Inequalities

For each problem, write an equation to model the scenario, then solve the equation.

1) During a bake sale, the fundraising team earned \$14 more on Saturday than they did on Sunday. If they earned a total of \$96 for the whole weekend, how much money did they raise on Saturday?

2) A baseball costs \$100 less than a baseball bat. If the ball and bat cost \$110 together, then how much does the baseball cost?

3) You walk into a store and buy four packages of hot dogs for a barbecue. You walked into the store with \$20 and ended up with \$2 leftover in change. How much did each package of hot dogs cost?

4) An airplane measures its altitude by measuring the air pressure of the air and comparing it with the air pressure from sea level, sent to it by local weather stations. Every 1 inch of mercury decrease in air pressure means 1,000 feet of altitude. If the air pressure at sea level is 30 inches of mercury and the plane's altimeter reads that the air pressure is 12 inches of mercury, what is the airplane's altitude in feet?

Solve each equation below. **Show all work!**

5)  $3m + 2m + 4 = 39$

6)  $4x - 2 - x = 25$

7)  $10y - 5 - 7y + 4 = -22$

8)  $2d + 10 - 3d = 14$

9)  $4 - 8w + 9 = -3$

10)  $-5t + 11 + 3t = 21$

11)  $3q + 7 + q - 8 = 13$