

Name _____

AMI Packet #1 – Advanced Topics

Advanced Topics, Period _____

The following assignment will be due the first day back to school from an AMI day. This assignment must be completed and returned at the beginning of class to receive credit of attendance. We will be available to answer questions via email, frankj@sccsd.k12.ar.us from 8 am – 3:25 pm. Please be patient on responses, the weather may affect internet service.

Multi-Step Equations

Solve each equation. Be sure to **SHOW** the **WORK** to support your answer in the space provided.

1) $-200 = -4x - 6x$

2) $6 = 1 - 2n + 5$

3) $8x - 2 = -9 + 7x$

4) $+ 5 = -5a + 5$

5) $4m - 4 = 6m$

6) $p - 1 = 5p + 3p - 8$

7) $5t - 14 = 8t + 4$

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

9) $24c - 22 = -4(1 - 6c)$

10) $-5(1 - 5g) + 5(-8g - 2) = -4g - 8g$

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Multi-Step Equations

Solve each equation. Be sure to **SHOW** the **WORK** to support your answer in the space provided.

1) $-8 = -(r + 4)$

2) $12 = -4(-6h - 3)$

3) $14 = -(f - 8)$

4) $-(7 - 4c) = 9$

5) $-18 - 6k = 6(1 + 3k)$

6) $5d + 34 = -2(1 - 7d)$

7) $2(4z - 3) - 8 = 4 + 2z$

8) $3y - 5 = -8(6 + 5y)$

9) $-(1 + 7x) - 6(-7 - x) = 36$

10) $-3(4a + 3) + 4(6a + 1) = 43$

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One-Step Equation Word Problems

Solve each equation. Be sure **SHOW** the **WORK** to support your answer in the space provided. Be sure to define your variable(s) and write your equation.

- 1) Lisa is cooking muffins. The recipe calls for 7 cups of sugar. She has already put in 2 cups. How many more cups does she need to put in?
- 2) At a restaurant, Mike and his three friends decided to divide the bill evenly. If each person paid \$13 then what was the total bill?
- 3) How many packages of diapers can you buy with \$40 if one package costs \$8?
- 4) Last Friday, John had \$29. Over the weekend he received some money for cleaning the attic. He now has \$41. How much money did he receive?

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One-Step Equation Word Problems

Solve each equation. Be sure **SHOW** the **WORK** to support your answer in the space provided. Be sure to define your variable(s) and write your equation.

- 1) Last week Sarah ran 30 miles more than Tom. Sarah ran 47 miles. How many miles did Tom run?
- 2) Amanda and her best friend found some money buried in a field. They split the money evenly, each getting \$24.28. How much money did they find?
- 3) Jenny wants to buy an MP3 player that costs \$30.98. How much change does she receive if she gives the cashier \$40?
- 4) How many boxes of envelopes can you buy with \$12 if one box costs \$3?

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Literal Equations

Solve each equation for the indicated variable. Be sure to show all of your work in the space provided.

1) $g = b - ca$, for a

2) $g = ca - b$, for a

3) $2x + 4 = xg$, for x

4) $g = \frac{1+2a}{a}$, for a

5) $g = \frac{x-c}{x}$, for x

6) $xm = x + z$, for x

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Literal Equations

Solve each equation for the indicated variable. Be sure to show all of your work in the space provided.

1) $u + ka = ba$, for a

2) $u = kx + yx$, for x

3) $u = 3b - 2a + 2$, for a

4) $z = 9a - 9 - 3b$, for a

5) $g = 4ca - 3ba$, for a

6) $-3a - 3 = -2n + 3p$, for a

7) $4x = -4r + 2d$, for x

8) $u = \frac{-2a-3}{ka}$, for a

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Order of Operations

Evaluate each expression. Be sure to show all of your work in the space provided.

1) $9 + 6 \div (8 - 2)$

2) $4(4 \div 2 + 4)$

3) $6 + (5 + 8) \times 4$

4) $6 \times 6 - (7 + 5)$

5) $(9 \times 2) \div (2 + 1)$

6) $2 - (4 + 3 - 6)$

7) $7 \times 7 - (8 - 2)$

8) $9 - 7 - 6 \div 6$

9) $(4 - 1 + 8 \div 8) \times 5$

10) $(10 \times 2) \div (1 + 1)$

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Evaluating Variable Expressions

Evaluate each expression. Use the given values. Be sure to show all of your work in the space provided.

1) $n^2 - m$; use $m = 7$ and $n = 8$

2) $8(x - y)$; use $x = 5$ and $y = 2$

3) $yx \div 2$; use $x = 7$ and $y = 2$

4) $m - n \div 4$; use $m = 5$ and $n = 8$

5) $x - y + 6$; use $x = 6$ and $y = 1$

6) $z + x^3$; use $x = 1$ and $z = 19$

7) $y + yx$; use $x = 15$ and $y = 8$

8) $q \div 6 + p$; use $p = 10$ and $q = 12$

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Evaluating Variable Expressions

Evaluate each expression. Use the given values. Be sure to show all of your work in the space provided.

1) $x + 8 - y$; use $x = 20$ and $y = 17$

2) $15 - (m + p)$; use $m = 3$ and $p = 10$

3) $10 - x + y \div 2$; use $x = 5$ and $y = 2$

4) $p - 2 + qp$; use $p = 7$ and $q = 4$

5) $xy + 4y$; use $y = 5$ and $z = 2$

6) $b(a + b) + a$; use $a = 9$ and $b = 4$

7) $p^2 \div 4 - m$; use $m = 3$ and $p = 4$

8) $x(y \div 3)^2$; use $x = 4$ and $y = 9$

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Evaluating Variable Expressions

Evaluate each expression. Use the given values. Be sure to show all of your work in the space provided.

1) $4 + m + n - m$; use $m = 4$ and $n = 9$ 2) $qp + q - p$; use $p = 7$ and $q = 3$

3) $mn \div 6 + 10$; use $m = 7$ and $n = 6$ 4) $6 + j(j - h)$; use $h = 2$ and $j = 6$