Pre-Algebra Name_____

Chap 7 Practice Test, IA Ver 2

Date_____ Period____

(7-1) Solve each equation.

1) $7p - 10 = -73$

2) $187 = 7 + 9v$

3) $62 = 4b - 2$

4) $6 = \frac{x - 2}{2}$

(7-2) Solve each equation.

5) $8(5 - 7v) = -72$

6) $21 - 7x = -7(1 - 3x)$

7) $-5 - 7(-2 + 3m) = -3(1 + 5m)$

(7-3) Solve each equation.

8) $3\frac{1}{72} = 2\frac{1}{6}n + 2\frac{5}{6}$

9) $\frac{1.4 + m}{4.1} = -2.097$

(7-1 through 7-4) Consider the following situation, then answer the question.

10) Daniel spent half of his weekly allowance playing arcade games. To earn more money his parents let him mow the lawn for $4.40. What is his weekly allowance if he ended with $12.10?

11) Joe won 124 super bouncy balls playing basketball at the county fair. At school he gave four to every student in his math class. He only has 8 remaining. How many students are in his class?

12) Mofor won 126 pieces of gum playing the bean bag toss at the county fair. At school he gave four to every student in his math class. He only has 10 remaining. How many students are in his class?

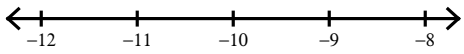
(7-5) Solve each inequality.

13) $50 \geq -10 - 10r$

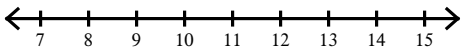
14) $-1 + 8m \leq -73$

(7-5) Solve each inequality and graph its solution.

15) $-9 + \frac{x}{-2} > -4$



16) $-10 < -4 + \frac{p}{-2}$



(7-6) For problems 17 through 18, solve for the indicated variable.

17) The formulas for perimeter P is $P = 2w + 2l$, with width w and length l . Solve for l.

18) The formula for temperature in degrees Fahrenheit F is $F = \frac{9}{5}C + 32$, with degrees in Celsius C. Solve for C.

(7-7) Use simple interest to find the ending balance.

19) \$12,700 at 12.9% for 4 years

(7-7) The formula for compound-interest is $B = p(1 + r)^n$. Find the total value of the investment after the time given.

20) \$20,100 at 6% compounded annually for 2 years

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(7-1) Solve each equation.

1) $7p - 10 = -73$

{–9}

2) $187 = 7 + 9v$

{20}

3) $62 = 4b - 2$

{16}

4) $6 = \frac{x - 2}{2}$

{14}

(7-2) Solve each equation.

5) $8(5 - 7v) = -72$

{2}

6) $21 - 7x = -7(1 - 3x)$

{1}

7) $-5 - 7(-2 + 3m) = -3(1 + 5m)$

{2}

(7-3) Solve each equation.

8) $3\frac{1}{72} = 2\frac{1}{6}n + 2\frac{5}{6}$ $\left\{\frac{1}{12}\right\}$

9) $\frac{1.4 + m}{4.1} = -2.097$

{–9.9977}

(7-1 through 7-4) Consider the following situation, then answer the question.

10) Daniel spent half of his weekly allowance playing arcade games. To earn more money his parents let him mow the lawn for $4.40. What is his weekly allowance if he ended with $12.10?

$15.40

11) Joe won 124 super bouncy balls playing basketball at the county fair. At school he gave four to every student in his math class. He only has 8 remaining. How many students are in his class?

29

12) Mofor won 126 pieces of gum playing the bean bag toss at the county fair. At school he gave four to every student in his math class. He only has 10 remaining. How many students are in his class?

29

(7-5) Solve each inequality.

13) $50 \geq -10 - 10r$

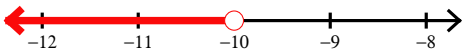
$r \geq -6$

14) $-1 + 8m \leq -73$

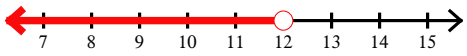
$m \leq -9$

(7-5) Solve each inequality and graph its solution.

15) $-9 + \frac{x}{-2} > -4$



16) $-10 < -4 + \frac{p}{-2}$



(7-6) For problems 17 through 18, solve for the indicated variable.

17) The formulas for perimeter P is $P = 2w + 2l$, with width w and length l . Solve for l. $l = \frac{P}{2} - w$

18) The formula for temperature in degrees Fahrenheit F is $F = \frac{9}{5}C + 32$, with degrees in Celsius C. Solve for C. $C = \frac{5F - 160}{9}$

(7-7) Use simple interest to find the ending balance.

19) \$12,700 at 12.9% for 4 years

\$19,253.20

(7-7) The formula for compound-interest is $B = p(1 + r)^n$. Find the total value of the investment after the time given.

20) \$20,100 at 6% compounded annually for 2 years

\$22,584.36