

## Chap 7 Practice Test, IA Ver 1

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**(7-1) Solve each equation.**

1)  $\frac{n}{4} - 4 = -8$

2)  $1 + \frac{x}{3} = -4$

3)  $-4 = \frac{x}{-14} - 5$

4)  $98 = 8m - 6$

**(7-2) Solve each equation.**

5)  $42 = 7m - 7(8 + 8m)$

6)  $-4(7 + 8x) = -3x + 30$

7)  $-2 - 5(x - 5) = 4x + 8(2 - 2x)$

**(7-3) Solve each equation.**

8)  $\frac{77}{180} = -\frac{13}{10}n - \frac{2}{9}$

9)  $1.34 = \frac{-1.4 + v}{4.4}$

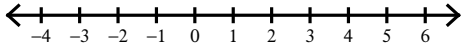
**(7-1 through 7-4) Consider the following situation, then answer the question.**10) The sum of three consecutive numbers is 39.  
What is the smallest of these numbers?11) How old am I if 400 reduced by 2 times my  
age is 222?12) Huong spent half of her weekly allowance at  
the movies. To earn more money her  
parents let her clean the oven for \$9.55.  
What is her weekly allowance if she ended  
with \$16.48?**(7-5) Solve each inequality.**

13)  $-9n - 7 \geq 11$

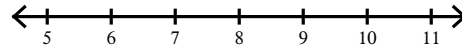
14)  $-7 \geq \frac{-4 + n}{3}$

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

15)  $-15 > -6 - 9p$



16)  $\frac{5+x}{-14} > -1$



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

17) The formula 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) \$480 at 7.6% for 7 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) \$1,030 at 7% compounded annually for 2 years

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**(7-1) Solve each equation.**

1)  $\frac{n}{4} - 4 = -8$

 $\{-16\}$ 

2)  $1 + \frac{x}{3} = -4$

 $\{-15\}$ 

3)  $-4 = \frac{x}{-14} - 5$

 $\{-14\}$ 

4)  $98 = 8m - 6$

 $\{13\}$ **(7-2) Solve each equation.**

5)  $42 = 7m - 7(8 + 8m)$

 $\{-2\}$ 

6)  $-4(7 + 8x) = -3x + 30$

 $\{-2\}$ 

7)  $-2 - 5(x - 5) = 4x + 8(2 - 2x)$

 $\{-1\}$ **(7-3) Solve each equation.**

8)  $\frac{77}{180} = -\frac{13}{10}n - \frac{2}{9} \left\{ \begin{array}{l} -1 \\ -2 \end{array} \right\}$

9)  $1.34 = \frac{-1.4 + v}{4.4}$

 $\{7.296\}$ **(7-1 through 7-4) Consider the following situation, then answer the question.**10) The sum of three consecutive numbers is 39.  
What is the smallest of these numbers? $12$ 11) How old am I if 400 reduced by 2 times my  
age is 222? $89$ 12) Huong spent half of her weekly allowance at  
the movies. To earn more money her  
parents let her clean the oven for \$9.55.  
What is her weekly allowance if she ended  
with \$16.48? $\$13.86$ **(7-5) Solve each inequality.**

13)  $-9n - 7 \geq 11$

 $n \leq -2$ 

14)  $-7 \geq \frac{-4 + n}{3}$

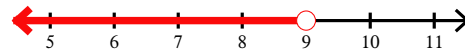
 $n \leq -17$

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

15)  $-15 > -6 - 9p$



16)  $\frac{5+x}{-14} > -1$



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

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

18) The formula for temperature in degrees Fahrenheit  $F$  is  $F = \frac{9}{5}C + 32$ , with degrees in Celsius  $C$ . Solve for  $C$ .  $\frac{5F - 16}{9}$

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

19) \$480 at 7.6% for 7 years

\$735.36

**(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) \$1,030 at 7% compounded annually for 2 years

\$1,179.25