

54

21-A++  
20-A++  
19-A+

19

18-A  
17-B+  
16-B

15-C+  
14-C  
13-D+

12-D  
11-F  
10-F

Name:  
Per:

Key

# MATH PRACTICE

Week 23

Due: Thursday, 3/14

7-119. Croakie's the frog's coach established Croakie's position (p) with the inequality  $p + 7 < 18$ .

a) Solve the inequality

b) Graph all possible positions for Croakie on a number line

$P < 11$  +1  $\frac{18}{-7}$   
"all values less than 11"



+2  
open circle @ 11

7-122. Rewrite each expression below using the Distributive Property.

a)  $5(2x + 1)$

b)  $34(x - 1)$

c)  $9(x + 3)$

$2x+1$   
 $2x+1$   
 $2x+1$   
 $2x+1$   
 $2x+1$   
+1  
 $10x+5$

$34(x)-34(1)$   
 $34x-34$   
+1

$9(x)+9(3)$   
 $9x+27$   
+1

7-125. Ms. Jancsi bought a new package of border decoration to put around the bulletin board in her classroom. The package contains 300 inches of border. The dimensions of the rectangular bulletin board are 8 feet by 3 feet. If she puts the border around all four sides of the bulletin board, how much leftover bulletin material will she have? Include a labeled sketch on your paper.

$12 \overline{) 300} = 25 \text{ft.}$   
 $\begin{array}{r} 025 \\ 12 \overline{) 300} \\ -24 \downarrow \\ \hline 60 \end{array}$



+1 perimeter = 8ft + 3ft + 8ft + 3ft = 22ft  
+1

$25 - 22 = 3 \text{ft}$  +1 3ft

She will have 3ft. leftover.

7-120. To solve for a variable means to determine all of the possible values for the variable that make the equation or inequality true. Solve each of the following equations and inequalities.

a)  $x - 10 = 46$  +1  $\frac{46}{+10}$   
 $x = 56$  +1  $\frac{56}{56}$

b)  $c - 24 \geq 30$  +1  $\frac{30}{+24}$   
 $c \geq 54$   $\frac{54}{54}$

c)  $w + 8 < 28$  +1  $\frac{28}{-8}$   
 $w < 20$   $\frac{20}{20}$

d)  $20 = e + 9$  +1  $\frac{120}{-9}$   
 $11 = e$   $\frac{11}{11}$

e)  $\frac{y}{4} = 10$  +1  $10 \times 4 = 40$   
 $y = 40$  +1

7-128. Use a Giant One to change each of the following fractions to a number with a denominator of 100. Then write each portion as a percent.

a)  $\frac{85}{200}$

b)  $\frac{14}{20}$

b)  $\frac{5}{25}$

c)  $\frac{23}{50}$

d)  $\frac{27}{300}$

e)  $\frac{7}{8}$  +2 BONUS

$\frac{85}{200} \div \frac{2}{2} = \frac{42.5}{100}$

$\frac{5}{25} \times \frac{4}{4} = \frac{20}{100}$

$\frac{23}{50} \cdot \frac{2}{2} = \frac{46}{100}$

$\frac{27}{300} \div \frac{3}{3} = \frac{9}{100}$

$\frac{7}{8} \cdot \frac{12.5}{12.5} = \frac{87.5}{100}$

$\begin{array}{r} 42.5 \\ 2 \overline{) 85.0} \\ -8 \downarrow \\ \hline 05 \\ -4 \downarrow \\ \hline 10 \end{array}$  +1  
 $42.5\%$

$20\%$  +1

$46\%$  +1

$9\%$  +1

$\begin{array}{r} 012.5 \\ 8 \overline{) 100.0} \\ -8 \downarrow \\ \hline 20 \\ -16 \downarrow \\ \hline 40 \\ -40 \downarrow \\ \hline 0 \end{array}$  +1  
 $12.5 \times 7 = 87.5$   
 $87.5\%$