

① 1 gallon = 200 sq. ft

$A = lw$   
 $50 \quad 20$   
 $A = (20)(50) = 1000 \text{ sq. ft}$   
 $200 \overline{) 1000} = 5 \text{ gallons}$

②  $I = P_1 r_1 t + P_2 r_2 t$

$P_1 = x \quad P_2 = 3x \quad I = 7200$   
 $r_1 = .03 \quad r_2 = .05 \quad t = 1$

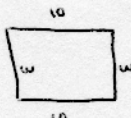
$I = .03x + .05(3x) = 7200$

$.03x + .15x = 7200$

$.18x = 7200$

$x = \frac{7200}{.18} = 40000$

$\$40000 @ 3\%$

③  $L = 10 \text{ m}$   
 $P = 40 \text{ m}$   
  
 $P = 2w + 2L$

$P = 2w + 2L$

$40 = 2w + 2(10)$

$40 = 2w + 20$

$20 = 2w \quad \boxed{w = 10 \text{ m}}$

④  $I = prt$

$I = 700 \quad r = .06$   
 $P = ? \quad t = 18$

$700 = p(.06)(18)$

$700 = 1.08p$

$p = 648.14 \quad \boxed{\text{(nearest dollar) } = \$648}$

⑤  $\boxed{2\%}$  view pie chart

⑥  $5 - 6 = 16\%$

$16\% \text{ of } 27000$

$(.16)(27000) = \boxed{4860 \text{ students}}$

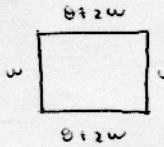
⑦  $10\% \text{ of } 6000$

$(.10)(6000) = \boxed{600 \text{ students}}$

⑧  $40\% \text{ of } 230$

$(.40)(230) = \boxed{\$92}$

⑨  $L = 8 + 2w$

$P = 220$   
  
 $P = 2w + 2L$

$P = 2w + 2L$

$220 = 2w + 2(8 + 2w)$

$220 = 2w + 16 + 4w$

$220 = 6w + 16$

$204 = 6w$

$\boxed{w = 34 \text{ ft}}$

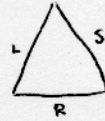
$L = 8 + 2(34)$

$\boxed{L = 76 \text{ ft}}$

⑩  $P = 53 \text{ cm}$

$L = 6 + S$

$R = 2 + S$



$P = L + R + S$

$53 = (6 + S) + (2 + S) + S$

$53 = 8 + 3S$

$45 = 3S$

$\boxed{S = 15 \text{ cm}}$

$L = 6 + 15 = \boxed{21 \text{ cm}}$

$R = 2 + 15 = \boxed{17 \text{ cm}}$

⑪ inequality symbols

⑫ equation

⑬ variable

⑭ numerator

⑮ solution

⑯ denominator

⑰ grouping symbols

⑱ like terms

⑲ compound inequalities

⑳ numerical coefficient