

June 3, 2015

### Problem Solving

- ① Understand the Problem
- ② Develop a plan
- ③ Carry out the plan
- ④ Check

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#b)

90 beads in total

$r$  = red beads  
 $g$  = green beads  
 $b$  = blue beads

$r = g \cdot 3$  if  $g = 2$ , then  
 $2(\cdot) = 6$   
 $g = b \cdot 2$  so,  $r = 6$

\* if  $r = g \cdot 3$ , then  
 $g$  could equal twenty  
 $\times$  so  $r = 60$   
 $g = 20$   
 $b = \frac{10}{90}$

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$(Y) \times 3 \rightarrow (R)$

$\uparrow$   
 $\times 2$   
 $(B)$

$= 90$

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Green  $\times 3 =$  Red  
 Green  $\times 2 =$  blue  
 total = 90

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- ①  $r = r$   
 $g = 3r$   
 $b = 2g$   
 $= 2(3r)$
- ② Plan  
 \* Let's pick a number for  $r$
- ③ Let  $r = 10$   
 then  
 $r = r = 10$   
 $g = 3r = 3(10) = 30$   
 $b = 2g = 2(30) = 60$   
 $\text{total} = 10 + 30 + 60 = 100$
- ④ Check  $r + 3r + 2(3r) = 90$   
 Does  $100 \neq 90$ ?

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$$r + 3r + 2(3r) = 90$$

10	$r = \frac{90}{10}$
10	

"one"

$r = 9$

$$9 + 3(9) + 2(3(9)) = 90$$

$$9 + 27 + 54 = 90$$

$$36 + 54 = 90$$

$$90 = 90 \checkmark$$

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#17)

$M$  = good singers  
 $A$  = people appeared as Contestants on A.J.

Venn Diagram  
 Contestants

① good singer &  
 ② Contestants

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#28)

A family has seven children.  
 A list of all possible genders of the children.

① b b b b b b b  
 ② b b b b b b g  
 ③ b b b b b

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① ② ③ ④ ⑤ ⑥ ⑦

$2^n$ , where  $n = 7$

$2^7 = 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2$   
 $= 4 \cdot 4 \cdot 2$   
 $= 16 \cdot 2$   
 $= 64 \cdot 2$   
 $= 128$

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$2^n$

$2^1 = 2$   
 $2^2 = 4$   
 $2^3 = 8$

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Exponents

$A^n$   
 ↑ Base      ↑ exponent  
 how many factors (copies) of the are being multiplied

$5^3 = 5 \cdot 5 \cdot 5$   
 $= 25 \cdot 5$   
 $= 125$

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Quiz # 1  
 Chapter 1 in class

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