

### Cathedral Prob

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a+s	
a+s	
a+s	

S  $33 \div 3$

Therefore, combined they make less than 11

**TRY 8**

ARTISTS	STONEMASONS	
3(1)	4(7)	= 31
3(2)	4(6)	= 30
3(3)	4(5)	= 29

decreasing (No!)

**TRY 9**

ARTISTS	STONEMASONS	
3(2)	4(7)	= 34
3(3)	4(6)	= 33
3(4)	4(5)	= 32

Maybe?  $4(3) + 3(6) \neq 37$   
decreasing (No!)

**TRY 10**

ARTISTS	STONEMASONS	
3(1)	4(9)	= 38
3(2)	4(8)	= 38
3(3)	4(7)	= 37

Maybe?  $4(3) + 3(6) = 35$   
**YES! Works for Both!**

Figure 1  
Room E

Difference 4

Guilders	Artist	Stone masons (A, S)
37	$4A$	$3S$
	$x7$	$x3$
	$7+3$	$(7, 3)$
-4	-1	+1
33	$3A$	$4S$
	$x7$	$x3$
	$7+3$	$(7, 3)$
	Guilders for 10 workers $A+S$	

$4 \times \square$   
 $+ 3 \times \square$   

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 $37$

$3 \times \square$   
 $+ 4 \times \square$   

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 $33$

Figure 2  
Room E

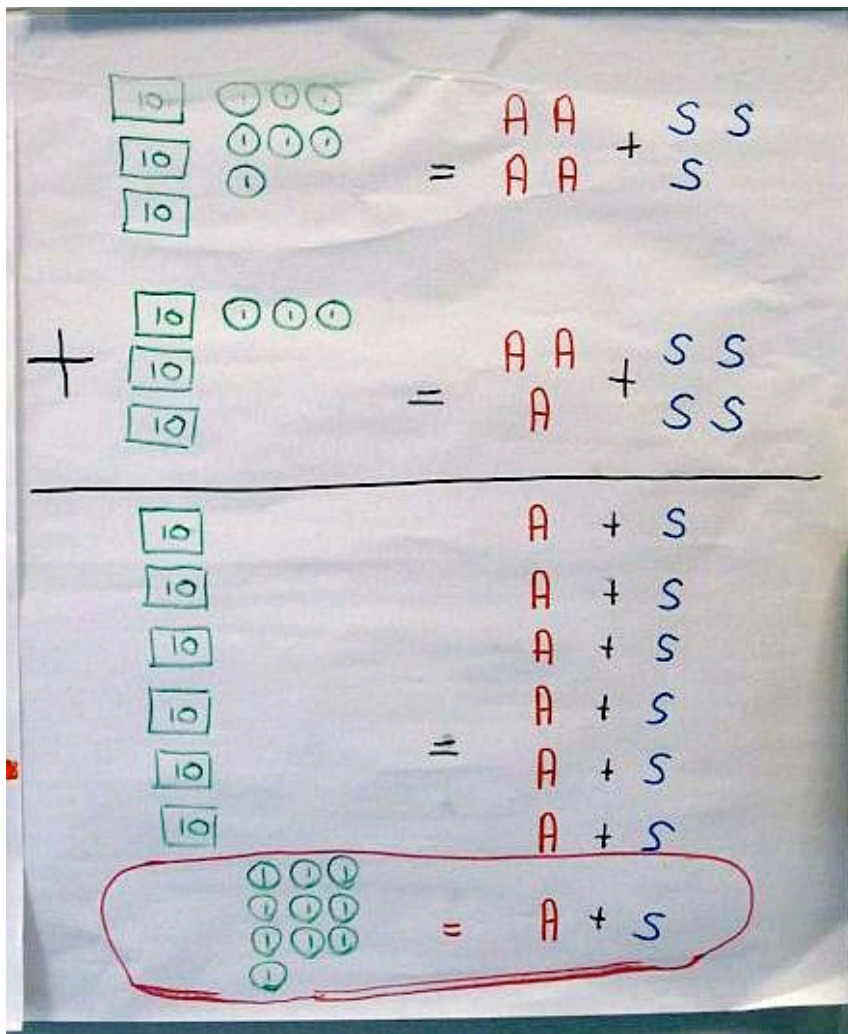


Figure 3  
Room E

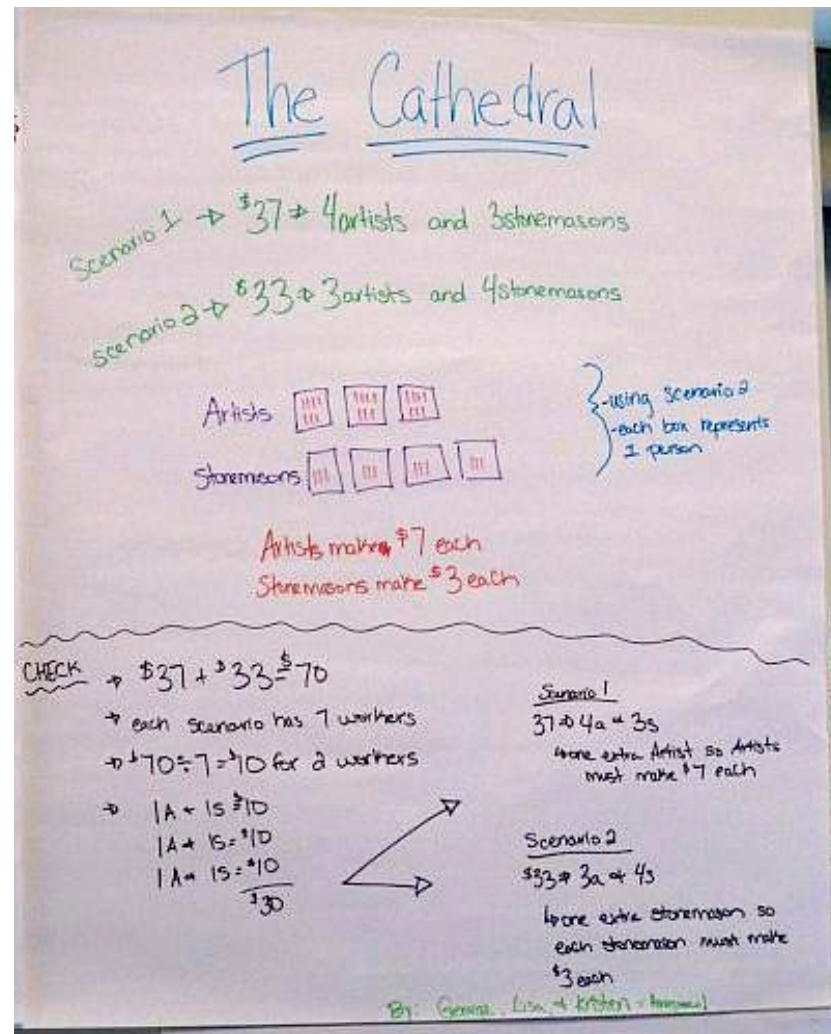


Figure 4  
Room E

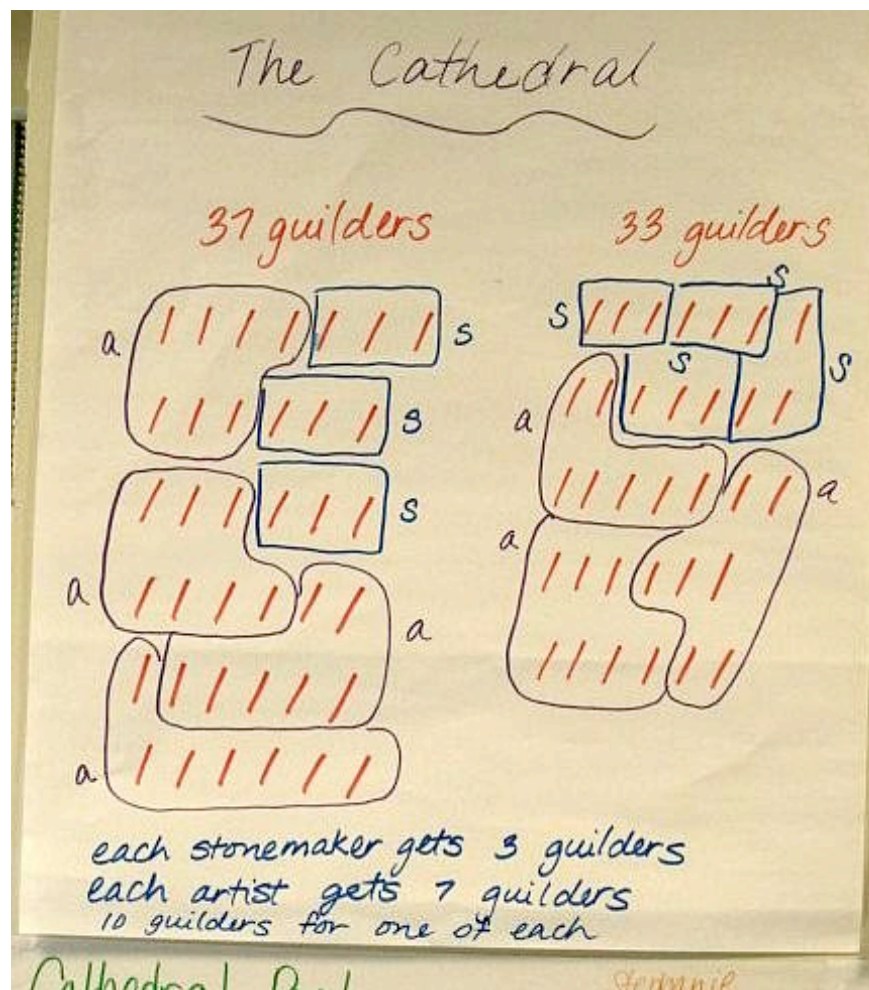


Figure 5  
Room E