

Name: \_\_\_\_\_  
 Date: \_\_\_\_\_

Strategy: Geometry  
 Worksheet: Four Room Building

In this problem you are asked to build the different four room buildings using  $2\text{cm}^3$  coloured wooden blocks. The blocks in the building should have full faces touching.

**The challenge:**

- (a) Build the different four block buildings
- (b) Draw each of these shapes on isometric paper provided.
- (c) Calculate the most economical house and the most expensive house based on the following costs:
  - (i) the base of each ground floor square costs \$10,000 each
  - (ii) the outside walls for each square costs \$4,000 each
  - (iii) the roof for each square costs \$6,000 each
  - (iv) floors in between and the walls in between costs \$2,000
- (d) Report your findings and compare your results with others in the class

Cost- show working out				Cost- Show working out	
1	Type	#	\$	7	
	Floor square	3	(3x10,000)=		
	Outside walls	12	(12x4,000)=		
	Roof square	3	(3x6,000)=		
	Internal floors/walls	3	(3x6,000)=		
			<b>Total</b>		
					<b>\$114,000</b>
2				8	
3				9	
4				10	
5				11	
6				12	

# ISOMETRIC Paper

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