

NAME:		
CLASS:		7
DATE:		
1) Enlarge each o	Basic the change helow using a coole factor of 2	
a)	the shapes below using a scale factor of 2.	
c)	d)	

2) Using the above shapes fill in the table below.

Shape	Original Area	Enlargement Area	Enlargement Area
			Original Area
а			
ь			
С			
d			



b

С

d

# Modelling the Spitfire

NAME:			
CLASS:			
DATE:			
	C	ore	
1) Enlarge each of the	shapes below using a scale fac	tor of 2.	
a)		d)	
2) Using the above sh	apes fill in the table below.  Original Area	Enlargement Area	Enlargement Area
			Original Area
а			



#### Core

3) Assume that each of the above shapes is the front face of a prism 10cm long. Calculate the volume if each prism is enlarged by a scale factor of 2, and fill in the table below.

Shape	Original Volume	Enlargement Volume	Enlargement Volume
			Original Volume
а			
ь			
С			
d			



NAME:	<u> </u>		
CLASS:			
DATE:			
1) Enlarge each of the sh	Advanced sapes below using a scale factor of 2.		
a)	b)		
c)	d)		

2) Assume that each of the above shapes is the front face of a prism 10cm long. Calculate the volume if each prism is enlarged by a scale factor of 2, and fill in the table below.

Shape	Original Volume	Enlargement Volume	Enlargement Volume
			Original Volume
а			
ь			
С			
d			



#### **Advanced**

3) A square of area 40cm² is enlarged to a square of 160cm². What is the scale factor of enlargement?

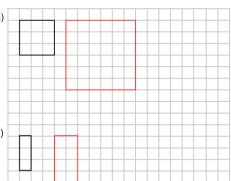
4) A cuboid has a volume of 540cm³. The lengths of the sides of the cuboid increase by a scale factor of 5. What is the volume of the enlarged cuboid?



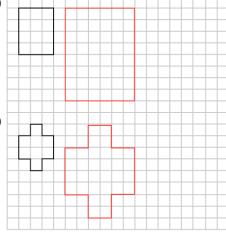
### **ANSWERS**

#### **Basic**





b)

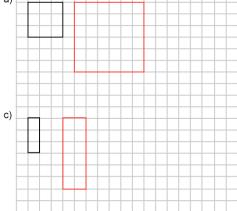


2)

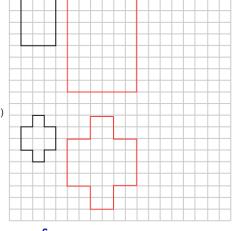
Shape	Original Area	Enlargement Area	Enlargement Area
			Original Area
а	9	36	4
ь	3	12	4
С	12	48	4
d	8	32	4

#### Core





b)





### **ANSWERS**

Core

2)

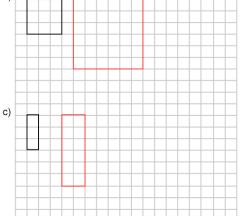
Shape	Original Area	Enlargement Area	Enlargement Area
			Original Area
а	9	36	4
ь	3	12	4
С	12	48	4
d	8	32	4

3)

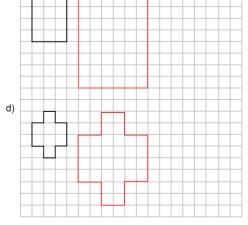
Shape	Original Volume	Enlargement Volume	Enlargement Volume
			Original Volume
а	90	720	8
Ь	30	240	8
С	120	960	8
d	80	640	8

#### Advanced











### **ANSWERS**

#### **Advanced**

2)

Shape	Original Volume	Enlargement Volume	Enlargement Volume
			Original Volume
а	90	720	8
ь	30	240	8
С	120	960	8
d	80	640	8

3) 2

4) 67,500cm<sup>3</sup>