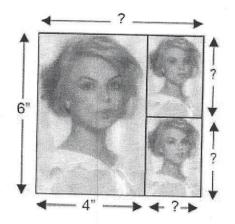
## **Photographs**

This problem gives you the chance to:

use proportion in a real life geometric context

A photographer wants to print a photograph and two smaller copies on the same rectangular sheet of paper. The photograph is 4 inches wide and 6 inches high.

Here are two ways he could do it. (Note: the diagrams are not drawn to actual size.)



6"

Diagram 1

Diagram 2

 Find the measurements of the small photographs for each arrangement. Show your calculations and explain how you figured it out.

Diagram	1	
***		
Section 1997 (1997) and Art Control of Contr		
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	Diagram 2		
			management of the developed butter
2.	Find the size of the sheet of paper for each arrangement.		
	Diagram 1		
	The measurements of the sheet of paper are	wide and	high.
	Diagram 2		
	Diagram 2		
	The measurements of the sheet of paper are	wide and	high.

Photographs		
The core elements of performance required by this task are:  use proportion in a real life geometric context		8
Based on these, credit for specific aspects of performance should be assigned as follows	points	section points
<ol> <li>Diagram 1:</li> <li>The height of the smaller copy = 1/2 of 6 inches = 3 inches</li> </ol>	1	
Uses proportional reasoning correctly: Height/width = 6/4 = 3/width or Size of photo/Size of copy = 6/3 = 4/width Width = 2 inches Accept verbal reference to scaling if answer correct.	1 1	
Diagram 2: The width of the smaller $copy = 1/2$ of 6 inches = 3 inches	1	
Uses proportional reasoning correctly: Height/width = 6/4 = height/3 Height = inches 5 Accept verbal reference to scaling if answer correct.	1 1	
2. Gives correct answers:		6
Diagram 1: 6 inches wide, 6 inches high	1	
Díagram 2: inches wide, 6 inches high	1	2
Total Points		8