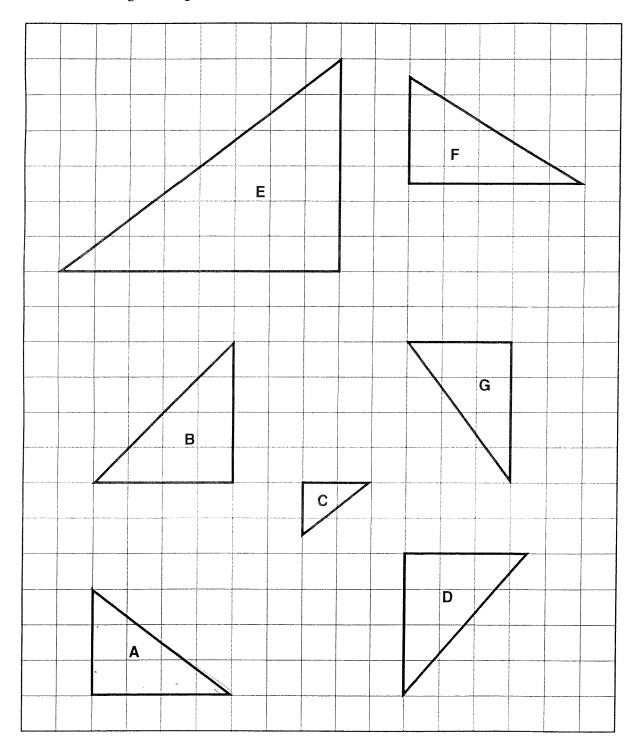
Triangles

This problem gives you the chance to:

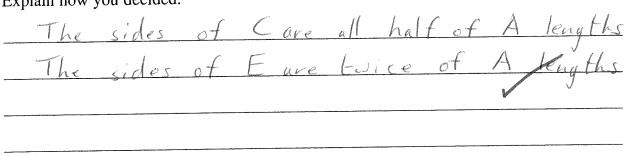
• reason about similar figures and scale factor

Here are some right triangles.



1.	Which of the triangles on the opposite page is congruent to triangle A?
Ex	xplain your reasoning.

mpiani jour rouss										
Both	loave	sides	of	3	and	4	with	a	90°	
- LUC	1 MVL					1.				
anule	bet	WEEN				V				



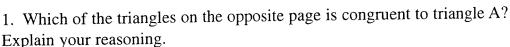
3. If triangle A is enlarged by a scale factor of 3, what will be the area of the new triangle? Show your work.

It will be
$$\times 3$$
 bigger across
and $3 \times$ bigger up
A is $2 \times 4 \times 3 = 6$
 $6 \times 3 \times 3$ is $6 \times 9^{7} = 54$

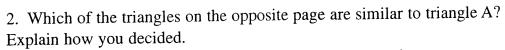
. Which of the triangles on the opposite page is congruent to triangle A?	
Explain your reasoning.	
At Gare 3 by 4 by 5	
	_
2. Which of the triangles on the opposite page are similar to triangle A? Explain how you decided.	
Cishalf A on its sides	
Cishalf Aonity sides Fis XZ	
	_
	-
3. If triangle A is enlarged by a scale factor of 3, what will be the area of the new triangle Show your work.	
18x	(
A is 12x 4x3 = 6	
656 - 18 *	(

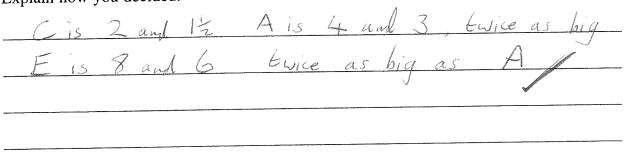
1. Which of the triangles on the opposite page is congruent to triangle A? Explain your reasoning.	<u>G</u>	1.
bic they have the same ?	sides_	. #8
É area /		
2. Which of the triangles on the opposite page are similar to triangle A? Explain how you decided.		
its just smaller x	* · · · · · · · · · · · · · · · · · · ·	
		0
3. If triangle A is enlarged by a scale factor of 3, what will be the area of th Show your work.	e new triangle?	0
1/2 (013) 5 9		C
		4 0

1. Which of the triangles on the opposite page is congruent to triangle A? Explain your reasoning.
They are both right triangles with sides
2. Which of the triangles on the opposite page are similar to triangle A? Explain how you decided.
the size of A in longth and Eis
Cuice ils size
3. If triangle A is enlarged by a scale factor of 3, what will be the area of the new triangle? Show your work.
Aven of A is 6
\hat{C}



Explain Jour rous	00						
They	ave (the	Same	shapes	with	the same	
sides				/	<i>e</i>	special	_
Frianal	. \						_





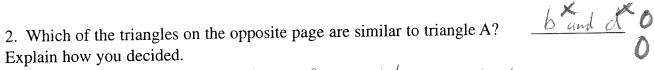
1. Which of the triangles on the opposite page is congruent to tri	angle A?
Explain your reasoning.	
It has sides 3 and 4 lite	A
2. Which of the triangles on the opposite page are similar to triangles.	ngle A?
Explain how you decided.	
The sides for and 2, 12 H	X5 A = 2
	-
- 4 11 F 11 B 6	Y Comment
3. If triangle A is enlarged by a scale factor of 3, what will be the	area of the new triangle?
Show your work.	() ()
•	750
	R /
Avog of A k 62 x	O
	~
6= 2 3 10 1.	^
62×3=19=x	

1. Which of the triangles on the opposite page is congruent to triangle A? Explain your reasoning. A and g fit over each that ex	actly 1
2. Which of the triangles on the opposite page are similar to triangle A? Explain how you decided. The Sides of e are double the side of	es des
3. If triangle A is enlarged by a scale factor of 3, what will be the area of the no Show your work.	ew triangle?

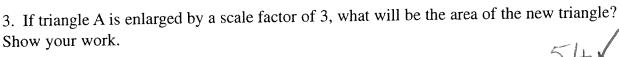
1. Which of the triangles on the opposite page is congruent to triangle A? Explain your reasoning.	_ [
2. Which of the triangles on the opposite page are similar to triangle A? Explain how you decided. It to tours shape, high and looks the dans	- _0 _0 -
3. If triangle A is enlarged by a scale factor of 3, what will be the area of the new triangle Show your work. A=18 ×	- ? _O

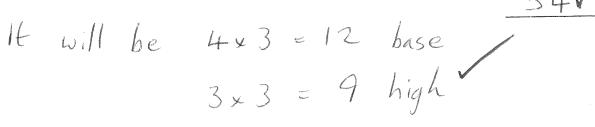
1. Which of the triangles on the opposite page is congruent to triangle A?	9
Explain your reasoning.	

its	just t	he same	size pas	a	



Explain nov	v you dec	idea.								- Op
Heu	have	one	side	of 4	like	a	but	ave	a	
bit	talle	v						X		
	,									

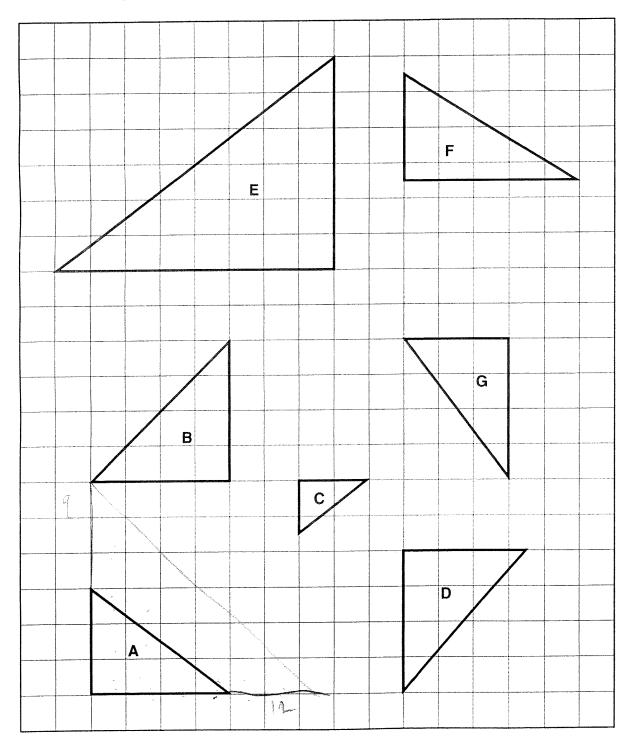




This problem gives you the chance to:

• reason about similar figures and scale factor

Here are some right triangles.



1. Which of the triangles on the opposite page is congruent to triangle A? Explain your reasoning.



Glake up the same number

2. Which of the triangles on the opposite page are similar to triangle A?

Explain how you	i decided.			
F (A .		
F JA	facino the	farre	dection	_

3. If triangle A is enlarged by a scale factor of 3, what will be the area of the new triangle? Show your work.

1. Which of the triangles on the opposite page is congruent to triangle A?	
Explain your reasoning. It is same size and shape as A just towned vound	
turned round	
2. Which of the triangles on the opposite page are similar to triangle A? Explain how you decided.	1
As sides shared by 2 give C	
As sides shared by 2 give C As sides times by 2 give E	
3. If triangle A is enlarged by a scale factor of 3, what will be the area of the new triang Show your work.	gle?
As arens 5x4x3=6	
it will be x3 yp and x3 across	**************************************
1 + 3 3 - 5 - 3	

1. Which of the triangles on the opposite page is congruent to triangle A?	
Explain your reasoning. A and IT have same sides of 3 and 4 and	
same shape	
2. Which of the triangles on the opposite page are similar to triangle A? Explain how you decided.	EI
I is half the size of A, it is It:	2
= 2 and 3:2= 12	
Eis x 2 of A	
3. If triangle A is enlarged by a scale factor of 3, what will be the area of the new triangle	-
Show your work.	James O
A has 6 squares	
6×3 is 18 squares	0

TOTAL A	our roupoilli	1	e opposite pa						
They	arr	the	same	size,	and	25	y04	were	
<i>to</i>	fold o	he o	ver the	other	they	would	190	344F	C
each	other.		same ver the		•		e ^{ul}		
2. Which		gles on th	e opposite pa					N. 46	,
			<u>aoina</u>	the s	ame i	direct	tions	and	
they	both	on	going the sai	me and	le,	×			0
	· · · · · · · · · · · · · · · · · · ·			-					
,	***************************************		· · · · · · · · · · · · · · · · · · ·	***************************************					

3. If triangle A is enlarged by a scale factor of 3, what will be the area of the new triangle? Show your work.

dopat know

	the triangles on the opposite page is congruent to triangle A? reasoning.	
) hey	have some great	
2. Which of	the triangles on the opposite page are similar to triangle A? you decided.	Contraction of the Contraction o
Cis	half as long and high as A	
1= 15	×2	
3. If triangle	e A is enlarged by a scale factor of 3, what will be the area of th	e new triangle?
Show your	work.	54
		į.
	× 9 = 54	