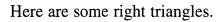
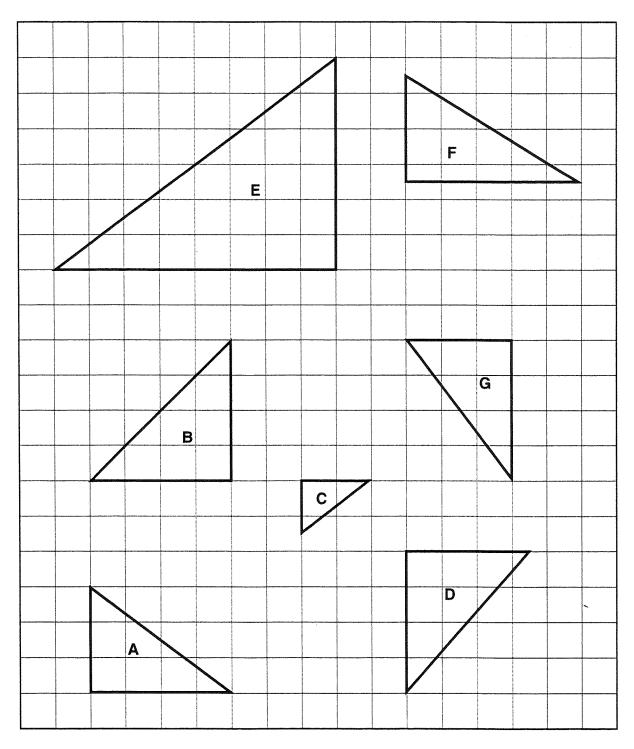
Triangles

This problem gives you the chance to:

• reason about similar figures and scale factor





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

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 $6 \times 9 = 54$

54 squares

1. Which of the triangles on the opposite page is congruent to triangle A? Explain your reasoning.	(T
A+G are 3 by 4 by 5	
Explain how you decided.	C, E
Cishalf Aonits sides	
Fis X2	
3. If triangle A is enlarged by a scale factor of 3, what will be the area of the new scale factor of 3.	ew triangle?
Show your work.	18
A is 2x 4,3=6	
623 = 18	

<u>becases</u>) (Marin	<u> 195</u>	Some	are				
NAMES OF THE OWNER, WHICH THE PARTY OF THE OWNER, WHICH T					1990 			
								_
2. Which of the tria	ngles on	the oppo	site page are	e similar 1	to triangle	A? .	They	
Explain how you de								
all	art	hon	auet_	they	acc	Mal	at tria.	ades
	2(,, C					- C		~
	·		504-4-7-7-4-8-M-A-LA-LA-B-B-B-B-B-B-B-B-B-B-B-B-B-B-B-B					

3. If triangle A is en	larged b	v a scale t	factor of 3 x	what will	he the area	of the t	new triangle	27
Show your work.	narged o	y a scare i	idetoi oi 5,	viiat wiii	oc die area	i or the i	icw triangic	· •
one your work.							18 units	
							10 cinito	

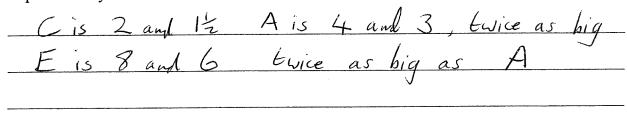
A=20h A=2×4×3 A=2×4 A=

	vour reas	oning.			nent to triangle A	5,00
				TRE		
	area	<u>></u>				
	ch of the to how you		he opposite pa	ge are simil	ar to triangle A?	
Lapian	•		<u>anni 6</u>	····		
		•.				
		3. 4.50				
						
	angle A is our work.	enlarged by	a scale factor of	of 3, what w	rill be the area of	f the new triangle?

1. Which of the triangles on the opposite page is congruent to triangle A?
Explain your reasoning.
They are both right triangles with sides
3 and 4
2. Which of the triangles on the opposite page are similar to triangle A?
Explain how you decided
All right triangles but Cis all half
All right triangles but C is all half The size of A in longth and E is
Chice 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.
Aver of A is 6

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

They	ave t	he s	ame	shapes	with	the	Same
sides				/	(the		
Exianal	. \		-,00,			/	



It will be
$$4 \times 3 = 12$$

by $3 \times 3 = 9$

$$Avau = \frac{1}{2} \times 12 \times 9 = 6 \times 9 = 54$$

1. Which of the triangles on the opposite page is congruent to triangle A?	,
Explain your reasoning.	
It has sides 3 and 4 lite A	
2. Which of the triangles on the opposite page are similar to triangle A?	
2. Which of the triangles on the opposite page are similar to triangle A? Explain how you decided.	
The sides for and 2, 1's that's A -2	
The sides for C are 2, 12 that's A - 2 1 1 B B 1 A x 2	Mary Apple Address of the State
2. If this walls A is colleged by a goals factor of 2, what will be the ground the pays trian	~
3. If triangle A is enlarged by a scale factor of 3, what will be the area of the new trian Show your work.	gie:
19	5
Avoa of A is 62	

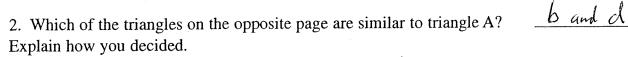
1. Which of the triangles on the opposite page is congruent to triangle A?	
Explain your reasoning.	r
a and a fit over eachother exactly	4
Explain your reasoning. A and g fit over anchother exact	
2. Which of the triangles on the opposite page are similar to triangle A?	
Explain how you decided.	
the sides of e are double the sides	
of a	
	. 2
3. If triangle A is enlarged by a scale factor of 3, what will be the area of the new triangle Show your work.	: :
516W your work.	
L.1. x 3 x 9 =	

Page 5

1. Which of the triangles on the opposite page is congruent to triangle A?	<u> 6</u>
Explain your reasoning.	
afor would held & a and it would your 16	
2. Which of the triangles on the opposite page are similar to triangle A?	1 F
Explain how you decided.	
it is the some shape, ling, and looks the same	
3. If triangle A is enlarged by a scale factor of 3, what will be the area of the new scale factor of 3.	ew triangle?
Show your work.	ew triangle:
C A=	:18.
X 3	
18	

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

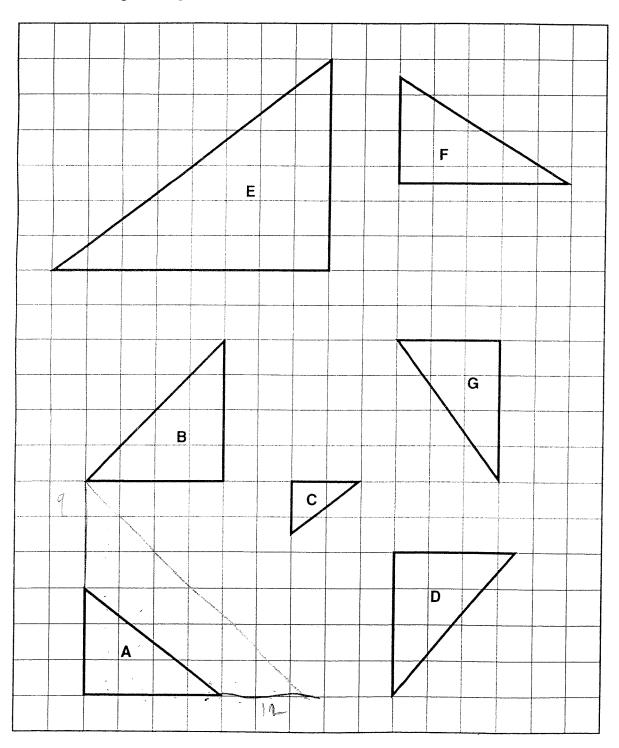
 it	S	just	the	Same	size	as	a		
		~							



Emplain no	,, , , , , , , , , , , , , , , , , , , ,								
theu	have	one	side	of 4	like	a	bat	ave	a
hit	talle			of 4					

It will be
$$4 \times 3 = 12$$
 base $3 \times 3 = 9$ high

Here are some right triangles.



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

of units as A

2. Which of the triangles on the opposite page are similar to triangle A? Explain how you decided.

Explain how you	decided.		
Fib	facing the	farue.	direction,
y tu-			

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

Show your work.

54 km (6)

A: 16h A: 2x 46 x 9 = 54 = 54

1. Which of the triangles on the opposite page is congruent to triangle A?	G_
Explain your reasoning.	
It is same size and shape as A jus	<u> </u>
turned round	
2. Which of the triangles on the opposite page are similar to triangle A? Explain how you decided.	and L
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	triangle?
Show your work.	- - 2
As arens \(\frac{1}{2} \times 4 \times 3 = 6	
it will be x3 up and x3 across	
$6 \times 3 \times 3 = 53$	

1. Which of the triangles on the opposite page is congruent to triangle A? Explain your reasoning.
A and II 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.
[is half the size of A, it is I+= 2
= 2 and 3:2= 12
E is 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.
A has 6 squares
6×3 is 18 squares

1. Which Explain ye	of the trian	ngles on thing.	ne oppos	ite page	e is cong	ruent to tria	angle A?	tris	ang le 6
They	are	the	sam	<u>e</u> -	size,	and	<u> </u>	y04	were
to	fold o	ihe o	ver	the	other	and they	would	100	34+F
	a ther						1900-and 19		·
Explain h	ow you ded	cided.				ilar to trian			
They	are	both	10	ina	the	Same	direct	tions	and
they	bot	h on	the	SAM	e an	same gle,			
Manuscript Control of the Control of				,					
							Auto Estatument		
<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>						- M	MURALE .		
	•	larged by	a scale fa	actor of	3, what	will be the	area of the	e new tria	angle?
Show you	ir work.							dona	<u>Kno</u> w

1. Which of the triangles on the opposite page is congruent to triangle A?	\textstyle \textstyle \textstyle
Explain your reasoning.	
They have some grear	
2. Which of the triangles on the opposite page are similar to triangle A?	CE
Explain how you decided.	/
C is half as long and high as A	
C is half as long and high as A E is × 2	
3. If triangle A is enlarged by a scale factor of 3, what will be the area of the	new triangle?
Show your work.	54