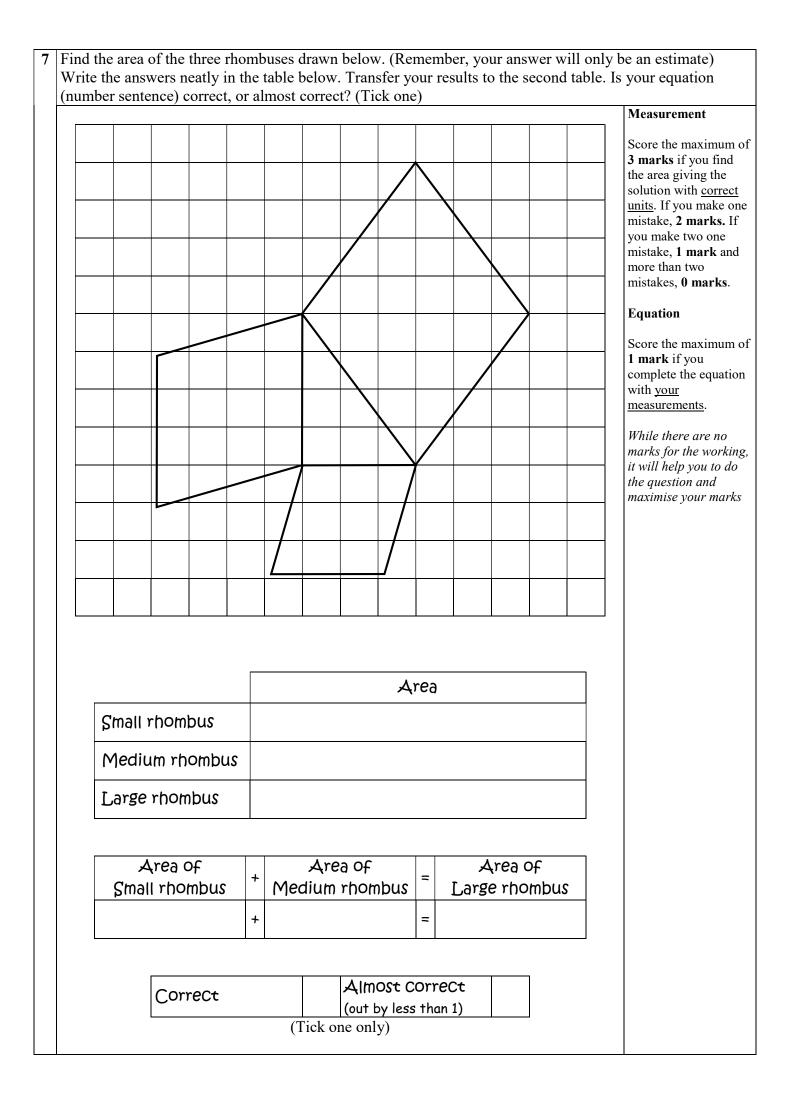
An Investigation Measurement 8-9

								Fill i	t up					
								nstru	•					
•	Work alone													
-	Follow the qu	Follow the questions carefully. Read all instructions, including how to score marks.												
-	ALL the grid													
-	All solutions				on th	is pap	er.							
•	You may use				1	1 1		1			.1 1	1		
1	Find the area	a of th	ne rect	angle	draw	n belo	w. W	rite the	e answ	vers no	eatly b	below.		Score the maximum of
														2 marks if you find
														the area giving the
				ſ										solution with <u>correct</u>
														<u>units</u> . If you make one mistake, 1 mark and
														more than one mistake,
														0 marks.
														While there are no
														marks for the working,
														<i>it will help you to do</i>
														the question and maximise your marks.
	L													
2	Find the area	a of th	e tria	ngle d	rawn	belov	Wri	te the	answe	rs nea	tly be	low		
2		1 01 U		iigic u	1 4 10 11		v. vv11							Score the maximum of
														2 marks if you
														complete the table
				1										with <u>no errors</u> . If you make one mistake, 1
														mark and more than
														one mistake, 0 marks.
														While there are no
							\mathbf{N}							marks for the working,
														it will help you to do
								\backslash						the question and maximise your marks.
	_													maximise your marks.
1														
	•													

3 Find the area of the triangle drawn below. Write the answers neatly below.	
	Score the maximum of 2 marks if you find the area giving the solution with <u>correct</u> <u>units</u> . If you make one mistake, 1 mark and more than one mistake, 0 marks . <i>While there are no</i> <i>marks for the working,</i> <i>it will help you to do</i> <i>the question and</i> <i>maximise your marks</i> .
4 Find the area of the parallelogram drawn below. Write the answers neatly below.	
	Score the maximum of 2 marks if you find the area giving the solution with <u>correct</u> <u>units</u> . If you make one mistake, 1 mark and more than one mistake, 0 marks. While there are no marks for the working, it will help you to do the question and maximise your marks.
5 Find the area of the semi-circle drawn below. Write the answers neatly below.	Score the maximum of 2 marks if you find the area giving the solution with <u>correct</u> <u>units</u> . If you make one mistake, 1 mark and more than one mistake, 0 marks . <i>While there are no</i> <i>marks for the working,</i> <i>it will help you to do</i> <i>the question and</i> <i>maximise your marks</i> .

									Measurement Score the maximum
									Seems the merrimum
									3 marks if you find the area giving the solution with <u>correc</u> <u>units</u> . If you make co- mistake, 2 marks. I you make two one mistake, 1 mark an more than two mistakes, 0 marks. Equation Score the maximum 1 mark if you complete the equati with <u>your</u> measurements. While there are no marks for the worki it will help you to do the question and maximise your mark
					Area				
Ę	Small square								
	Medium square								
I	Jarge square								
	Area of Small square	+		a of n square	e =		rea of ge square		
	Correct		(Tick o	Almos ne only)	t Corr	eCt]	



	mber se				 							Measureme
									7			Score the ma 3 marks if y the area givi solution with <u>units</u> . If you mistake, 2 m you make tw mistake, 1 m more than tw mistakes, 0 n Equation Score the ma 1 mark if you complete the with your measurement While there the marks for the it will help y the question maximise you
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					 	A	rea					
Smal	triang	gle										
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	Area (all tria		+	Me	ea Of I tria		=		trea ge tri		è	
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9	Pythagoras' Rule states that "the square upon the hypotenuse is equal to the sum of the squares									
	upon the other two sides". Remembering this rule works for squares, record your observations by									
	completing the following questions.	·								
a)	In question 6, you were verifying that Pythagoras' Rule works for the area of squares.	You will score the								
	Your solution should have shown that	maximum of 2 marks for each part if you								
	9+16=25	explain your answer								
	i.e. $3^2 + 4^2 = 5^2$	clearly and correctly.								
	Did you get 25 cm ² for the area of the large square? YES/NO (Cross one out)	You will score 1 mark								
	Why was it hard to find the area of the large square?	for each part if you explain your answer in								
		terms of your data.								
		Incorrect or no answer								
		scores 0 marks.								
		These answesr should								
		be written as full								
b)	In question 7, you were testing if Pythagoras' Rule works for the area of rhombuses.	sentences.								
- /	Remember that your answers were estimates and the results may only have been nearly									
	correct, i.e. out by less than 1.									
	Did Pythagoras' Rule work for the area of rhombuses? YES/NO									
	Briefly explain your answer.									
	In superior 9 years testing if Dethe source' Dule were the fact the surce of a suilateral									
	In question 8, you were testing if Pythagoras' Rule works for the area of equilateral triangles. Remember that your answers were estimates and the results may only have									
	been nearly correct, i.e. out by less than 1.									
	Did Pythagoras' Rule work for the area of equilateral triangles? YES/NO									
	Briefly explain your answer.									
	Brieny explain your answer.									
d)	Squares, rhombuses and equilateral triangles all have equal sides. They are called									
	'regular shapes'.									
	Does Pythagoras' Rule work for the area of all 'regular shapes'? YES/NO									
	Briefly explain your answer.									