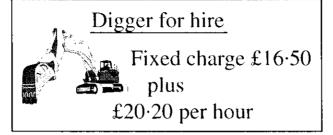
7 Nick hires a digger.

OCR OCR OCR

OCR OCR OCR OCR OCR

OCR



Calculate the total cost of hiring the digger for 6 hours.

£	·····	•••••	 	[2]
			~	

.]

8 There are 232 children in Joshua's school. There are 18 more girls than boys.

How many girls are in Joshua's school?

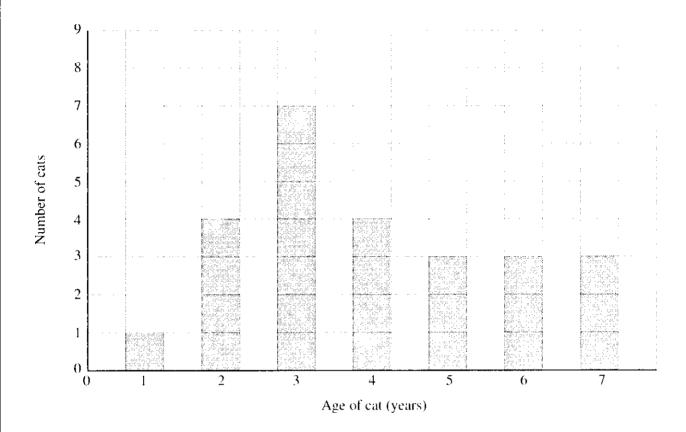
.....[3

3

[Turn over



9 (a) Ben records the ages of his friends' cats.



(i) Write down the range of the ages.

(a)(i)years [1]

(ii) Ben picks one of these cats at random.

What is the probability that the cat is aged 3 years?

(ii)[2]

(b) Amy records the ages of her friends' cats.

1 3 2 3 4 1 2 16

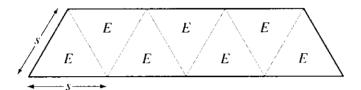
Work out the mean age.

(b).....years [3]



(c)	Make one statement about the ages of the cats recorded by Ben or Amy.	
		.,
		[1]

10 (a) This shape is made from equilateral triangles. Each equilateral triangle has an area *E* and sides of length *s*.



(i) Write down an expression for the area of the whole shape.

(ii) Write down an expression for the perimeter of the whole shape.

(b) These formulae are for another shape.

perimeter =
$$5a + 2b$$

area = $2ab$

Given that a = 3 and b = 6, work out

(i) the perimeter,

OCR

OCR OCR

OCR OCR

(ii) the area.

5]

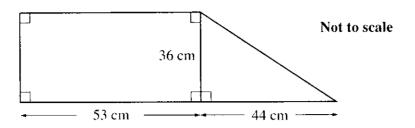
[Turn over



055319205

6

11



Calculate the area of this shape. Show all your working.

																												(ľ	ľ	1	?	ſ	4	Ļ	l
•	۰	۰	۰	•	•	•		•	•		٠.	٠.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	-	-		L		٠.	J

4

OCR OCR OCR OCR OCR OCR

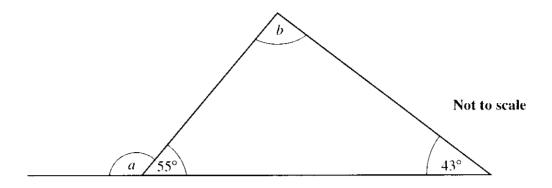
OCR OCR OCR OCR OCR

OCR OCR OCR OCR OCR

OCR OCR OCR



Work out angle *a* and angle *b*. Give a reason for each answer.



a =° because

b =° because

.....[4]

4