

NON-CALCULATOR

1 Calculate:

a. $3.58 - 2.734$

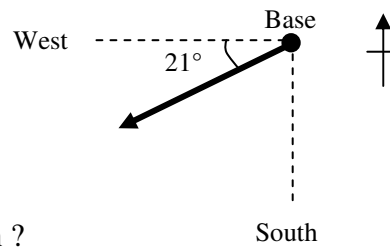
b. 6.37×60

c. $13.8 \div 4$

d. $\frac{3}{4} + \frac{1}{16}$

2. Bruce sets out from base during an orienteering competition.

The arrow in the sketch shows the direction in which he is travelling.



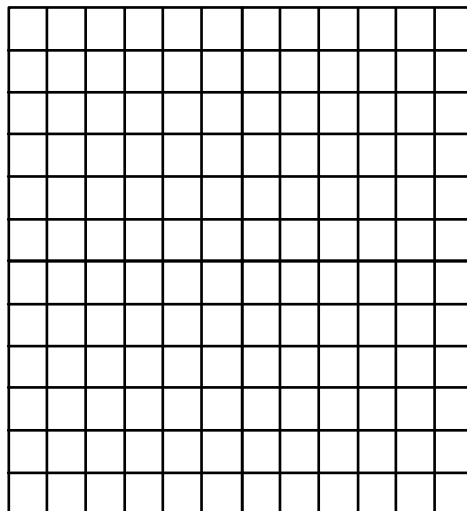
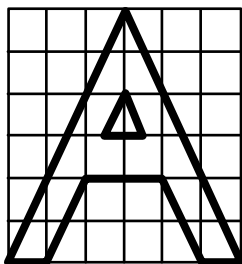
What is the three-figure bearing of this direction ?

3. Nine wooden balls numbered one to nine are placed in a bag.

A ball is removed from the bag.

What is the probability that this ball has a number more than 7 ?

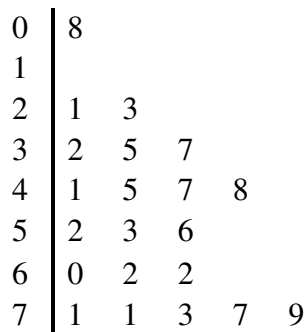
4. The letter A is shown in the diagram.
On the grid provided, draw an enlargement of this letter A, using a scale factor of 2.



KU	RE
1	
1	
1	
2	
	2
2	
	3

5. The number of hours of sunshine was recorded daily in a city during a three-week period in June.

The results are shown in the stem and leaf diagram to the right.
Using this diagram:



- a) calculate the range.

- b) find the median number of hours.

n = 21 3|2 represents 3.2 hours

6. Four friends have dinner in a restaurant.
A service charge of 15% is added to their bill.
Their bill is shown on the right.

<i>Armand's Pizza Restaurant</i>	
4 medium Pizzas	£28.00
4 large colas	£ 5.00
	£33.00
Total including	
15% service charge	£38.95

One of the friends thinks that the service charge has been calculated wrongly.

Is the service charge correct ?
Give a reason for your answer.

7. In a True or False game, players score +3 for a correct answer, and -1 for a wrong answer.

<i>The True or False Game</i>	
<u>Score:</u>	
+3	for a correct answer
-1	for a wrong answer

- a) Ann had 2 questions correct and 8 wrong.
What was her score ?

- b) David answered 10 questions.
His score was 18
How many questions did he answer correctly ?

KU	RE
2 2	
1	
	4
2	
	2

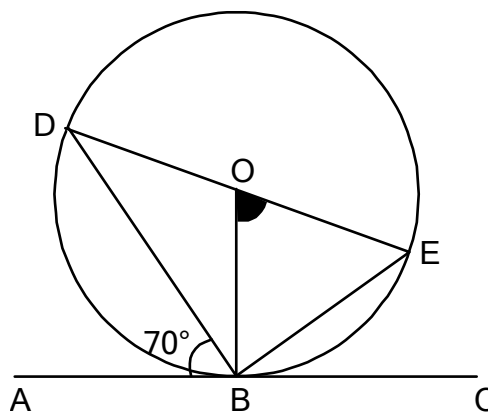
8. The international sizes for writing paper are shown in the list below.
All measurements are in millimetres.

A3	297	×	420
A4	210	×	297
A5	148	×	210
A6	105	×	148
A7	74	×	105
A8	52	×	74
A9	37	×	52
A10			

By inspecting the list,
write down the measurements for A10 writing paper.

9. The planet Pluto is approximately 7364 million kilometres from the Sun.
Write this number in scientific notation.

10.



In the diagram above

- a circle, centre O is drawn.
- the line AC is a tangent to the circle at B,
- Angle DBA = 70°

Calculate the size of the shaded angle BOE.

END OF QUESTION PAPER

KU	RE
	2
2	
	3
14	16