National 4 Mathematics: Homework 13

§ 1 Revision

1	Calculate.	WITHOUT:	a calculator:

- a) 50% of 18
- b) 25% of 32
- c) 75% of 20
- d) 60% of 40

2 With a calculator, calculate:

- a) 36% of 400
- b) 28% of 500
- c) 14% of 60
- d) 72% of 26

3 Change the following percentages to decimals:

- a) 92%
- b) 37%
- c) 14%
- d) 12.5%
- e) 3%
- f) 5.7%

- a) 0.31
- b) 0.79
- c) 0.04
- d) 0.135
- e) 0.09
- f) 0.01

- a) £300
- b) £1000
- c) £75

6 What is the answer to

7 Calculate

(a) 14 x 23

(b) 21 x 45

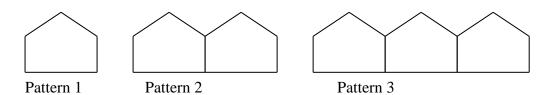
(c) $459 \div 17$

(d) $912 \div 24$

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§ 2 Mixed

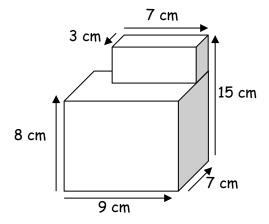
1 Look at the pattern below



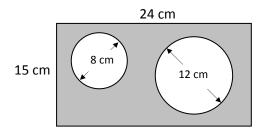
- (a) Draw pattern four.
- (b) Copy and complete the table below

Pattern number	(P)	1	2	3	4	5	L	16
Number of lines	(L)	5	9	13				

- (c) Write a formula connecting the number of lines, L, and the pattern number, P.
- (d) What pattern number could you draw using 325 lines?
- **2** Calculate the volume of this 3D shape.



3 Calculate the shaded area in each diagram below.



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