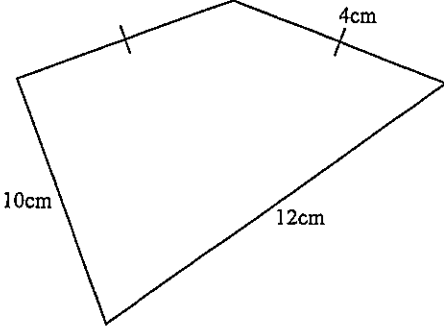
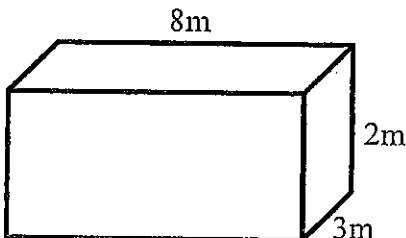
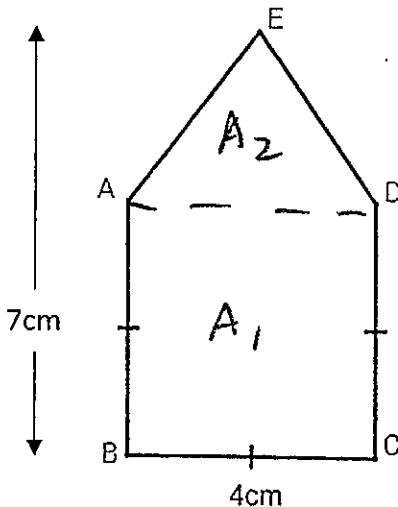
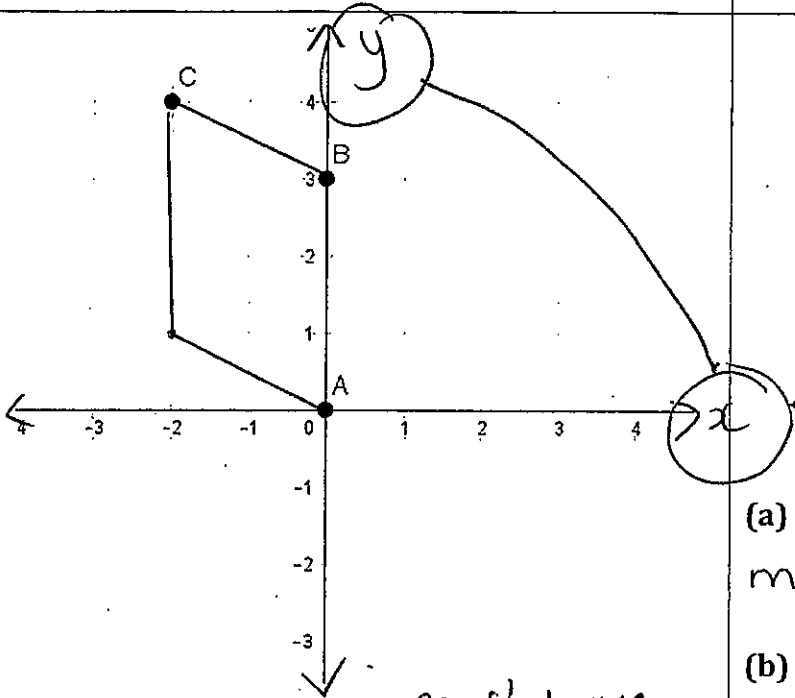
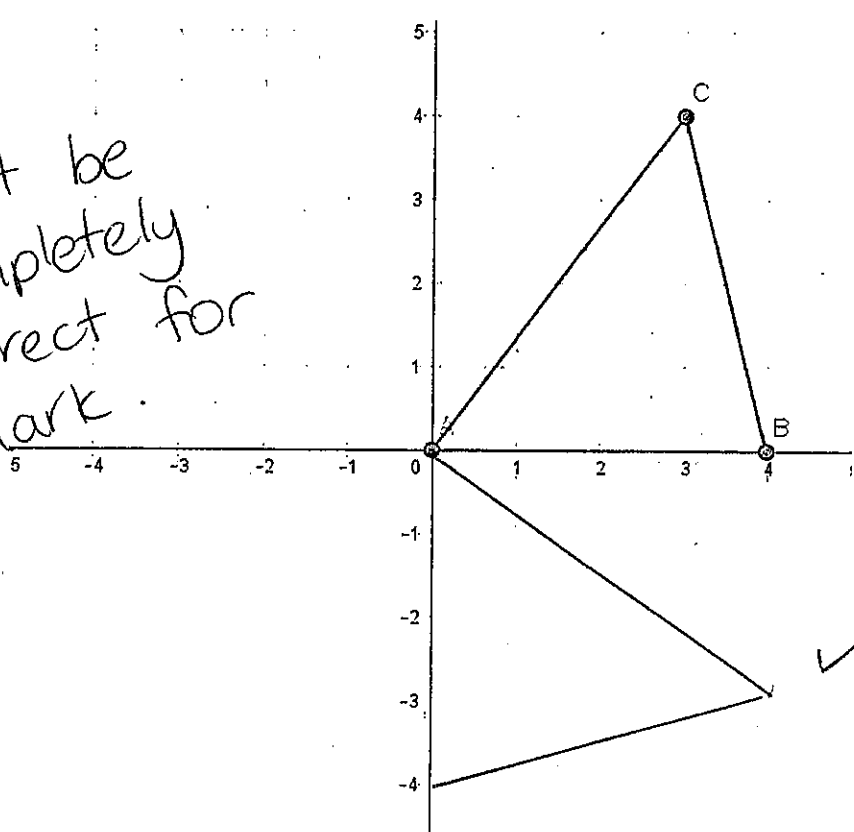
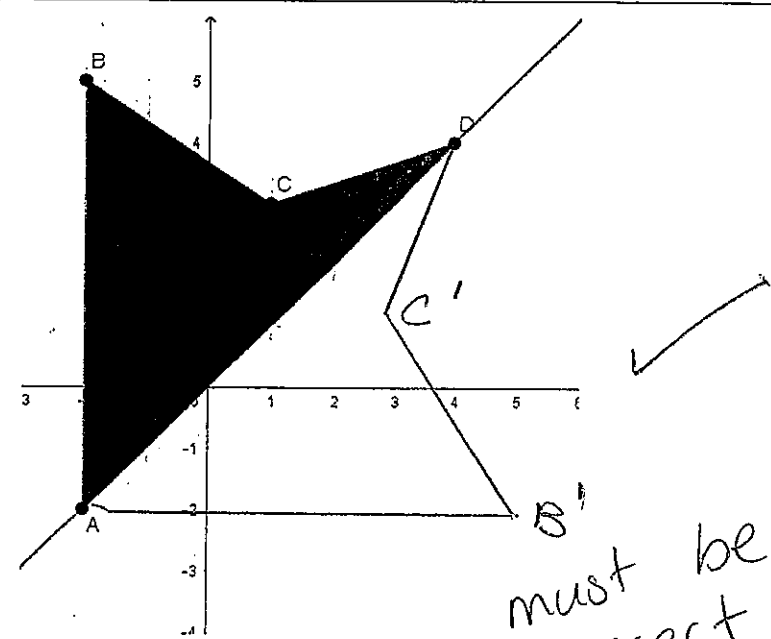


	Question	Working/Answer	Marks
1	Find the perimeter.  $P = 4 + 4 + 10 + 12$	30 cm.	1
2	Find the area of the rectangle. 	$A = 3 \times 6$ $= 18 \text{ m}^2$	1
3	(a) Find the volume of the shape below.  (b) What is its capacity in litres?	(a) $V = 8 \times 2 \times 3$ $= 48 \text{ m}^3$ (b) $C = 48000 \text{ L}$	1
4	Convert 5 cm^2 into mm^2	500 mm^2	1

5	Find the area of the shape below.  $A_1 = 4 \times 4 = 16$ — ① $A_2 = 3 \times 4 \times \frac{1}{2} = 6$ — ① $\text{total} = 16 + 6 = 22\text{cm}^2$ — ①		3
6	A cube with edge length 50 centimetres is cut up into cubes with edge length 5 centimetres. If all these cubes were stacked one on top of the other to form a tower, what would be the height of the tower in metres? $10 \times 10 \times 10 = 1000$ cubes — ① $1000 \times 5 = 5000\text{cm}$ high — ① $5000\text{cm} = 50\text{m}$ — ①	50m.	3
7	A rectangle has an area of 72cm^2. The length is twice the width. Find the perimeter of the rectangle if the length and width are integers (whole numbers). $\text{Dimensions } 12\text{cm} \times 6\text{cm}$ — ① $\text{Perimeter} = 12 + 12 + 6 + 6$ $= 36\text{cm}$ — ①	36cm.	2

1	Question	Working/Answer	Marks
	 For the number plane above: must have brackets and comma. (a) Label the x and y axes. (b) Write down the coordinates of B and C (c) On the number plane above, plot the point D (-2, 1) (d) Join A, B, C and D. What is the name of the shape you have just formed? (e) Find the area of this shape in units².	(a) On Number Plane must have both. 1 (b) $B = (0, 3)$ ✓ 2 $C = (-2, 4)$ ✓ (c) On Number Plane 1 (d) parallelogram. ✓ (Give mark if points not joined) • Spelling not important but needs to be phonetically correct. e) $A = 6 \text{ units}^2$ ✓	1 2 1

2	What is the name of the point (0, 0) in the Number Plane?	origin. ✓	1
3	Rotate the shape below 90° clockwise about the origin must be completely correct for mark. 		1
4	 (a) Reflect the shape ABCD across the line above (b) Write the coordinates of the new position of B must be completely correct for mark. (5, -2) ✓		1

Section 3 – Mixed Topics

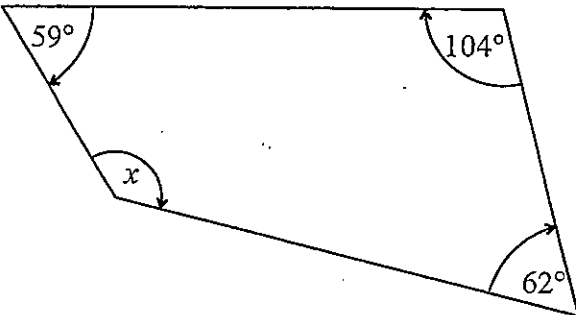
Total: ____/43

	Question	Working/Answer	Marks
1	Choose a word from the word bank to fill in the blanks to make a correct sentence prime two mean median tenths octagon hexagon hundredths three complementary square composite odd quadrilateral supplementary equal four units An <u>octagon</u> is a polygon with eight sides. ✓ The place value of the 3 in 64.32 is 3 <u>tenths</u>. ✓ A number is divisible by 8 if the last <u>three</u> digits are divisible by 8 ✓ Alternate angles on parallel lines are <u>equal</u>. ✓ 17, 3, 2, 29 are all examples of <u>prime</u> numbers ✓		5
2	Write three million, eight hundred thousand and five using numerals	3 800 005	1
3	Put the following into ascending order 42%, 0.44, $\frac{2}{5}$, 0.401 all correct must be completely correct.	$\frac{2}{5}$, 0.401, 42%, 0.44	
4	Find the highest common factor of 24 and 28	28 : 1, 2, 4, 7, 14, 28 } 24 : 1, 2, 3, 4, 6, 8, 12, 24 } <u>4</u> — (1)	2

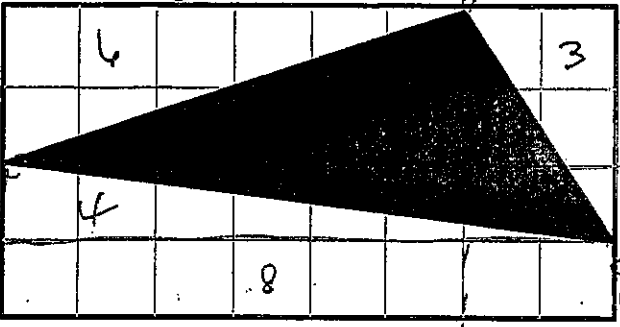
5	Evaluate		
(i)	$7 - (-8)$	(i) 15 ✓	1
(ii)	1.2×0.004	(ii) 0.0048	1
(iii)	$9.8 - 4.21$ $\begin{array}{r} 9.80 \\ -4.21 \\ \hline 5.59 \end{array}$	(iii) 5.59	1
(iv)	3^4	(iv) 81	1
(v)	$(-72) \div 8$	(v) -9	1
(vi)	$9 + 10 \times 2$	(vi) 29	1
6	Simplify		
(i)	$3y + 4y$	(i) $7y$ ✓	1
(ii)	$4x + 3y - 5y + 6x$	(ii) $(10x - 2y)$	2
(iii)	$6a \times 3ab$	(iii) $18a^2b$ ✓	1

1 mark. * If $10x + 2y$ students lost marks if not simplified to 1 mark given

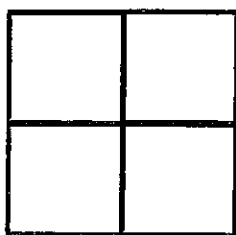
* If $10x + 2y$ students lost marks if not simplified to 1 mark given

7	Evaluate $\frac{3}{5} + \frac{2}{3}$ Leave your answer as an improper fraction	$\frac{9}{15} + \frac{10}{15} = \frac{19}{15}$	2 ①
8	Find 45% of \$500 $\frac{45}{100} \times 500 = 225$	\$225	2 ①
9	Give a reason why $x = 135^\circ$ 	The <u>angles</u> in a <u>quadrilateral</u> <u>add up</u> to <u>360°</u>. Underlined words (or equivalent) must be used.	1
10	Write $\frac{25}{6}$ as a mixed numeral	$4\frac{1}{6}$	1
11	Solve (a) $\frac{x}{7} = 14$ (b) $3a + 1 = 25$ $3a = 24$ $a = 8$	(a) 98 (b) $a = 8$	1 2

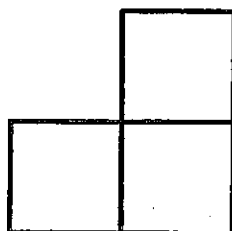
12	Substitute $x = -3$ into $x^2 - 4x$		2
	$(-3)^2 - 4(-3) \quad \text{--- ①}$ $= 9 + 12$ $= 21 \quad \text{--- ①}$	21.	
13	Write $\frac{4}{7}$ as a decimal correct to 3 decimal places		2
	$\begin{array}{r} 0.5714 \\ 7 \overline{) 4.0000} \end{array}$ ① Writing as a division with zeroes.	0.571 --- ①.	
14	Find x , <u>show all working</u> , giving reasons		2
	1 for all #s 1 for reasons $\angle AGH = 70^\circ$ (vertically opposite angles are equal) $\angle CHA = 110^\circ$ (cointerior angles on parallel lines are supplementary)		
15	Amelia and Tyler are sharing a pizza. Amelia eats half of the pizza and Tyler takes $\frac{2}{3}$ of what is left. What fraction of the whole pizza remains?		1
	$\frac{1}{3} \times \frac{1}{2}$	$\frac{1}{6}$.	

16	What fraction of the rectangle is shaded?  Unshaded area = 6 + 4 + 8 = 18	21 unshaded² boxes. 11 / 32 1	①
17	Chelsea has less than 100 balls in a bag. Half of them are red 15% of them are green 0.2 are blue and the rest are black. (a) How many balls <i>might</i> be in the bag? $\frac{1}{2}, \frac{15}{100} = \frac{3}{20}, \frac{1}{5}$ (b) Describe all possible solutions to the problem.	(a) 20 or 40 or 60 or 80 (b) Multiples of 20 or 20 x tables or equivalent.	1 need only one answer
18	I am thinking of two numbers A and B. When I divide A by 7, it leaves a remainder of 4. When I divide B by 7, it leaves a remainder of 5. Find the remainder when I divide A + B by 7 A: 11, 18, 25, 32, ... B: 12, 19, 26, 33, ...	* kids may do this as trial + error. * 1 mark for working 1 mark for answer. 2. — ①	2

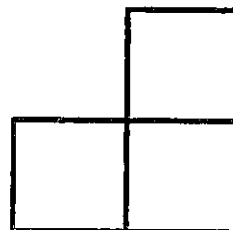
19 The top, side and front view of a solid shape are shown below.



Top view



Front view



View from the right hand side

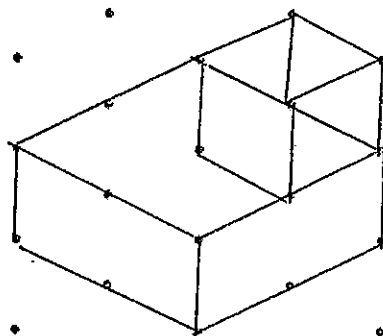
(a) How many cubes are required to build the shape?

5

1

(b) On the isometric dot paper below, draw the solid shape it would make.

1



* ~~the~~ students may draw from a different perspective

End of Examination