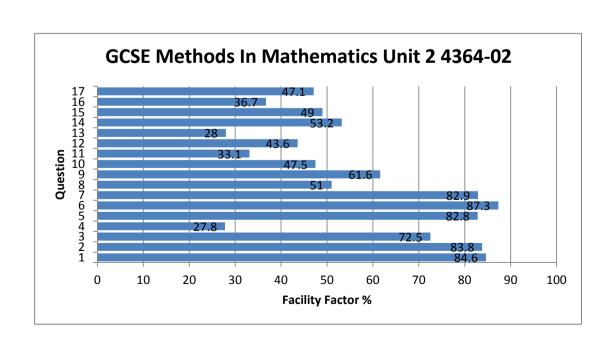


## WJEC 2014 Online Exam Review

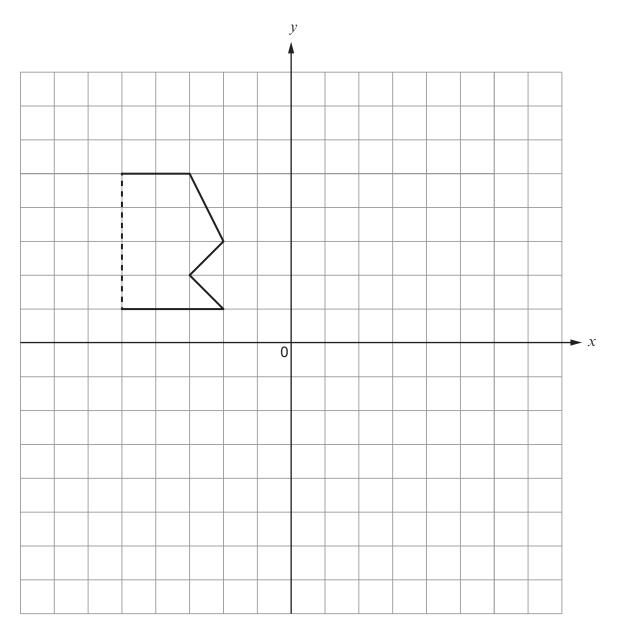
## **GCSE Methods In Mathematics Unit 2 4364-02**

All Candidates' performance across questions

?	?	?	?	?	?	?	
Question Title	N	Mean	S D	Max Mark	F F	Attempt %	
1	606	2.5	0.9	3	84.6	100	$\leftarrow$
2	606	8.4	1.9	10	83.8	100	$\leftarrow$
3	606	10.2	3.2	14	72.5	100	$\leftarrow$
4	596	2.5	2.6	9	27.8	98.3	
5	606	3.3	1.3	4	82.8	100	
6	591	2.6	0.9	3	87.3	97.5	
7	604	1.7	0.7	2	82.9	99.7	
8	562	3.1	2.6	6	51	92.7	
9	606	4.9	2.4	8	61.6	100	
10	572	2.9	2.2	6	47.5	94.4	
11	527	1.7	1.5	5	33.1	87	
12	573	1.3	1.4	3	43.6	94.5	
13	570	1.7	2.3	6	28	94.1	
14	605	3.2	2.1	6	53.2	99.8	
15	576	1	0.8	2	49	95	
16	556	1.8	1.7	5	36.7	91.8	
17	562	3.8	3.4	8	47.1	92.7	



Part of a shape is shown on the grid.
The dotted line is the line of symmetry of the shape.
Complete the drawing of the shape and then rotate your complete shape through 180° about the origin.

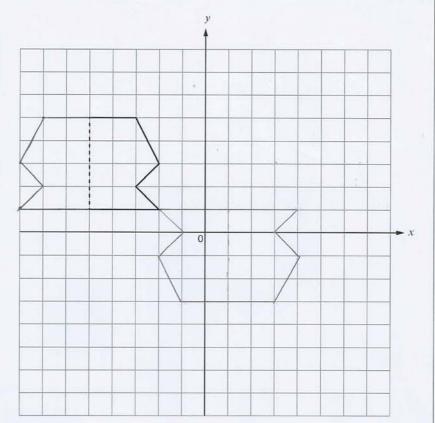


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Examiner only

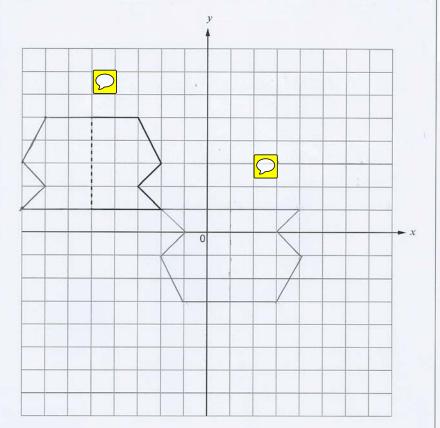
Part of a shape is shown on the grid.
 The dotted line is the line of symmetry of the shape.
 Complete the drawing of the shape and then rotate your complete shape through 180° about the origin.
 [3]



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Examiner

Part of a shape is shown on the grid.
 The dotted line is the line of symmetry of the shape.
 Complete the drawing of the shape and then rotate your complete shape through 180° about the origin.
 [3]

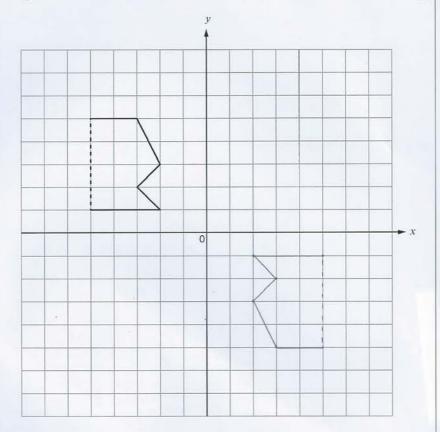


Examiner

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Part of a shape is shown on the grid.
The dotted line is the line of symmetry of the shape.
Complete the drawing of the shape and then rotate your complete shape through 180° about the origin.

[3]



Turn over.

3 Part of a shape is shown on the grid.
The dotted line is the line of symmetry of the shape.
Complete the drawing of the shape and then rotate your complete shape through 180° about the origin.

[3] 0 BI Turn over. (4364-02) © WJEC CBAC Ltd.

[2]	Examiner only
•••••	

**2.** (a) Solve  $\frac{5x}{8} = 10$ .

(b) Solve  $\frac{28}{x} = 7$ . [1]

(c) Solve 6(3x - 17) = 42. [3]

(d) Solve the inequality 9x + 5 < 77. [2]

(e) Write down the greatest whole number that satisfies the inequality 5x < 85. [2]

(a) Solve $\frac{5x}{8} = 10$ .	[2]
<u>5α = 10 5 x 18 = 11.25</u> <b>18</b> 5 x 16 = 10	
(b) Solve $\frac{28}{x} = 7$ .	[1]
$\frac{28}{x} = 7$ $\frac{700}{x}$ $4 \times 7 = 28$ $\frac{28}{4} = 7$	
(c) Solve $6(3x-17) = 42$ .	[3]
180 = 17 = 42 + 17 180 = 59	
18: 59: 18: 3.2777 83 0C= 3.3	
(d) Solve the inequality $9x + 5 < 77$ .	[2]
(e) Write down the greatest whole number that satisfies the inequality $5x < 85$ .	[2]

	4		
2.	(a) Solve $\frac{5x}{8} = 10$ .	[2]	Examiner only
	$\frac{5\alpha}{8} = 10$ $\frac{5\times18}{8} = 11.25$ $\frac{5\times16}{8} = 10$		2
	(b) Solve $\frac{28}{x} = 7$ .	[1]	
	28 = 7 70x 4x1 = 28 28 = 7 x		1
	(c) Solve $6(3x-17)=42$ .	[3]	
	180C - 11 = 42 + 17 $+17  18x = 59$		0 -
	175 59-18=3.2777° 8/3		BO
2	)		BI
	(d) Solve the inequality $9x + 5 < 77$ .	[2]	
	(e) Write down the greatest whole number that satisfies the inequality $5x < 85$ .	[2]	

Examiner only

*******

				5	
1	2.	(a)	Solve	32 =	= 10.

(b) Solve 
$$\frac{28}{x} = 7$$
.

(c) Solve 6(3x - 17) = 42.

[3] 8 1



(d) Solve the inequality 9x + 5 < 77.

[2]

(e) Write down the greatest whole number that satisfies the inequality 5x < 85.

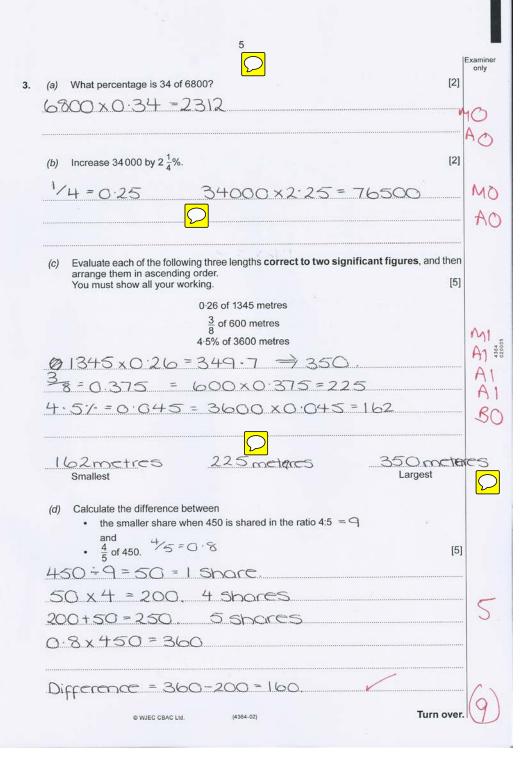


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3.	(a)	What percentage is 34 of 6800?	[2]
	(b)	Increase 34 000 by 2 ½%.	[2]
	(c)	Evaluate each of the following three lengths <b>correct to two significant figures</b> , and the arrange them in according order.	 en
		arrange them in ascending order. You must show all your working.	5]
		0·26 of 1345 metres	
		$\frac{3}{8}$ of 600 metres	
		4·5% of 3600 metres	···•
		Smallest Largest	
	(d)	Calculate the difference between  • the smaller share when 450 is shared in the ratio 4:5	
		and • $\frac{4}{5}$ of 450.	[5]
	•••••		••••
	•••••		

3.

(a) What percentage is 34 of	68002	Exam onl
		[-]
500 x 0:34 =	2312	
(b) Increase $34000$ by $2\frac{1}{4}\%$ .		[2]
1/4 = 0.25	34000 x 2:25 =	76500
(c) Evaluate each of the follow arrange them in ascending	ving three lengths correct to two sig	nificant figures, and then
You must show all your w		[5]
	0·26 of 1345 metres	T
	$\frac{3}{8}$ of 600 metres	
	4.5% of 3600 metres	
Ø 1345 x 0.26	=349·7 <del>→</del> 350	λ
3 = 0.375 =	600×0:375=22	25
	= 3600 x0:045	
162metres Smallest	225 meteres	350 meteres
(d) Calculate the difference be the smaller share w	etween hen 450 is shared in the ratio 4:5	9
and $\frac{4}{5}$ of 450. $\frac{4}{5} =$		
• $\frac{1}{5}$ of 450.		[5]
450 - 9 = 50 =	0.8	
450÷9=50= 50 x 4 = 200.	o.8 I.Share	
450÷9=50= 50 x 4 = 200, 200+50=250	0.8 I Share 4 shares 5 shares	
450÷9=50= 50 x 4 = 200, 200+50=250	0.8 I Share 4 shares 5 shares	
450÷9=50= 50 x 4 = 200, 200+50=250 0·8 x 450=36	0.8 I Share 4 shares 5 shares	



3.	(a) What percentage is 34 of 6800?	[2]			
	1% = 68 0.5%				
	0.5% = 34				
	(b) Increase 34 000 by $2\frac{1}{4}\%$ .	[2			
	2% of 34000 = 680 21/4% of 34000 = 76	>			
	1/4 % of 34000 = 85 34000 + 765 = 34765				
	(c) Evaluate each of the following three lengths correct to two significant figures, and arrange them in ascending order. You must show all your working.	d the			
	0.26 of 1345 metres $\frac{3}{8}$ of 600 metres $\frac{3}{8}$ 0.26 of 3600 metres				
	26% of 1345 = 349.7 1345 : 100 x 26				
	3/8 of 600 = 7.25 600 ÷ 8 × 3				
	4.5% of 3600 = 162 3600 = 100 x 4.5				
	4.5% of 3600	±S			
	<ul> <li>(d) Calculate the difference between</li> <li>the smaller-share when 450 is shared in the ratio 4:5 and</li> <li>4/5 of 450.</li> </ul>	[5			
	9 shares = 450 /5 of 450 = 90				
	1 share = 50 4/5 of 450 = 360				
	4 Shares = 200				
	4's is greater than the smaller share				

a) What percentage is 34		[2]
	0.5%	
5.5% = 34		
Increase 34 000 by 2 $\frac{1}{4}$	%.	[2]
2% of 34000 =	680 21/4% of 34000 = 7	765
14 % of 34000 =	85 34000 + 765 = 34765	
c) Evaluate each of the foll arrange them in ascend You must show all your		and then
	0.26 of 1345 metres 3.1.16	
	$\frac{3}{8}$ of 600 metres $\frac{1}{8}$ $\frac{1}{8}$ $\frac{1}{8}$	
	4·5% of 3600 metres	
	= 349.7 × 1345 ÷ 100 x 26	
38 of 600 = 22	.5 600 ÷ 8 × 3	
4.5% of 3600 =	162 3600 = 100 x 4.5	
4.5% of 3600 Smallest	3/8 of 600 26 % of Large	1345 est .
Calculate the difference	between	
\ <u>/</u>	when 450 is shared in the ratio 4:5	12 1 13
and $\frac{4}{5}$ of 450.		[5]
· ·	V5 05 450 = 90	
	4/s of 450 = 360	- AND COLOR OF THE SAME
4 Shares = 200		
4's is great	ir than the smaller share.	
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