Write your name here					
Surname Answers	,r	Other names			
Grade One and Two Paper Level 1 / Level 2 GCSE (9–1)	Centre Number	Candidate Number			
Mathematics Paper D Grade One and Two					
Exam Revision					

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer all questions.
- Answer the questions in the spaces provided
 there may be more space than you need.
- You must **show all your working**.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- Calculators may not be used.

Information

- The total mark for this paper is 115
- The marks for **each** question are shown in brackets
 - use this as a guide as to how much time to spend on each question.

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.



Q1	Write 55% as a decimal	0.55
Q2	Write 75% as a decimal	(1)
QZ	write 73% as a decimal	0.75
Q3	Write 35% as a decimal	(1)
		O-35
Q4	Write 45% as a decimal	0.45
Q5	Write 8% as a decimal	(1)
Ųэ	Write 6% as a decimal	0.08
Q6	Write 6% as a decimal	(1)
		0.06
Q7	Write 12% as a decimal	(1)
		(1)
Q8	Write 5% as a decimal	0,05
Q9	Here are the first four even numbers.	(1)
	2 4 6 8	
	Find the 8 th even number	16
	2×48=16	(1)

Q10	Here are the first four even numbers.	
	2 4 6 8	
	Find the 14 th even number $2 \times 14 = 28$	28
		(1)
Q11	Here are the first four even numbers.	
	2 4 6 8	
	Find the 50 th even number $50 \times 2 = 100$	100
		(1)
Q12	Here are the first four even numbers.	
	2 4 6 8	
	Find the 10 th even number	
	10 × 2 = 20	20
	10 × Z = Z0	(1)
Q13	Here are the first four even numbers.	
	2 4 6 8	
	Find the 21st even number	l. a
	21×2 = 42	42
Q14	Here are the first four even numbers.	(-/
	2 4 6 8	
	Find the 67 th even number	
		134
	67x2 = 134	(1)
Q15	Here are the first four odd numbers.	(1)
	1 3 5 7	
	Find the 8 th odd number	15
	2 × 8 = 16 16 - 1 = 15	(1)
	16-1 = 15	

	1 3 5 7	
	Find the 48 th odd number	00
	48×2 = 96	45
	48×2 = 96 96-1 = 95	(1)
Q17	Here are the first four odd numbers.	
	1 3 5 7	
	Find the 18 th odd number	25
	$18 \times 2 = 36$	33
	36-1 = 35	(1)
Q18	Here are the first four odd numbers.	
	1 3 5 7	
	Find the 41st odd number	٥.
	$41 \times 2 = 82$	81
	$41 \times 2 = 82$ 82 - 1 = 81	(1)
Q19	Here are the first four odd numbers.	
	1 3 5 7	
	Find the 12 th odd number	0.2
	12×2=24	25
	24-1 = 23	(1)
Q20	Here are the first four odd numbers.	
	1 3 5 7	
	Find the 20 th odd number	20
	20 x 2 = 40	37
	20 x 2 = 40 40 - 1 = 39	(1)

Q16

Here are the first four odd numbers.

Q21	Change 25 centimetres into millimetres.	
	25 x 10 = 250	250 millimetres
		(1)
Q22	Change 73 centimetres into millimetres.	
	73 x 10 = 730	730 millimetres
		(1)
Q23	Change 14 centimetres into millimetres.	
	14 x 10 = 140	140 millimetres
		(1)
Q24	Change 19 centimetres into millimetres.	
	19 × 10 = 190	millimetres
		(1)
Q25	Change 15 centimetres into millimetres.	
	15 × 10 = 150	millimetres
		(1)
Q26	Change 18 centimetres into millimetres.	
	18 × 10 = 180	N80 millimetres
		(1)
Q27	Write down a multiple of 6 between 20 and 30. $6 \times 4 = 24$ ov 30	24
	0 × 1 - 24 0 30	(1)
Q28	Write down a multiple of 7 between 30 and 40.	35
	$5 \times 7 = 35$	(1)

Q29	Write down a multiple of 3 between 15 and 25. $3 = 15$ $6 \times 3 = 18$ $7 \times 3 = 21$	15, 18,21 or 24
Q30	$8 \times 3 = 24$ Write down a multiple of 9 between 20 and 30. $3 \times 9 = 27$	(1) 27
Q31	Write down a multiple of 8 between 10 and 20. $2 \times 8 = 16$	(1)
Q32	Write down a multiple of 9 between 70 and 80. $8 \times 9 = 72$	72
Q33	Work out 400 + 255 400 255+ 655	(1) 655
Q34	Work out 600 + 425	1025
Q35	Work out 500 + 355	⁽¹⁾ 8 55
Q36	Work out 800 + 145	(1)
Q37	Work out 200 + 155	945 (1) 355 (1)

Q38 Billy hires a car for 8 days.

He pays £52 per day.

He also pays £50 insurance.

Billy pays with thirty £20 notes.

How much change should he get?

(3)

Q39 Milly hires a dress for 5 days for her prom weekend.

She pays £26 per day.

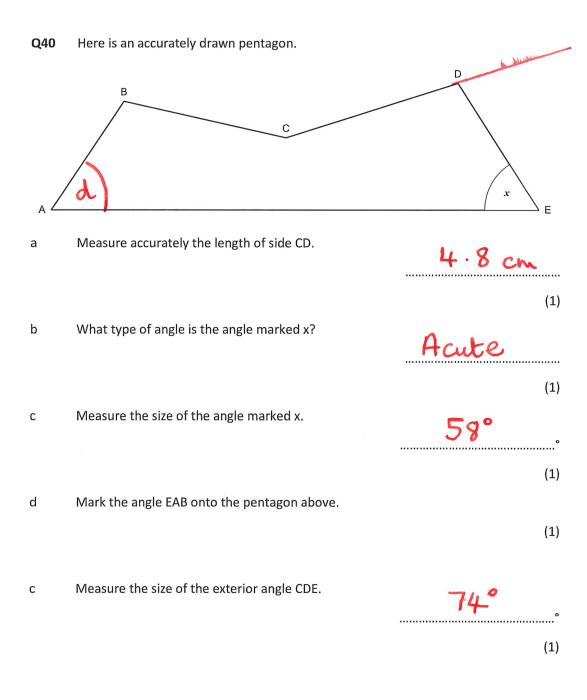
She also pays £12 insurance.

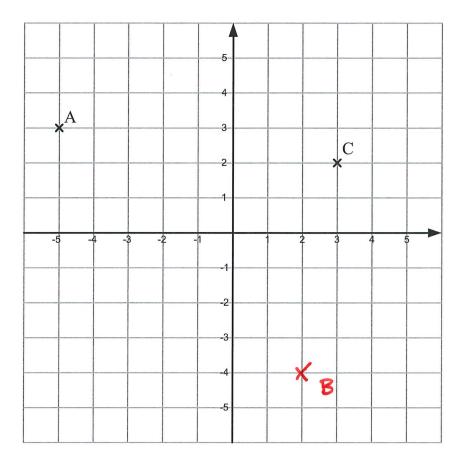
Milly pays with five £50 notes.

How much change should she get?

$$5 \times 26 = 130$$

 $130 + 12 = 142$
 $5 \times 50 = 250$
 $250 - 142 = 108$





a Write down the co-ordinates of point A.

b On the grid, mark with a cross the point (2,-4).

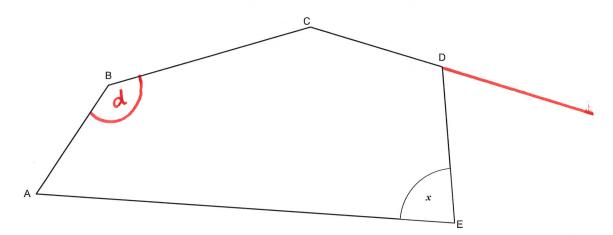
Label this point B.

(1)

c Write down the co-ordinates of the midpoint of AC.

$$x: \frac{-5+3}{2} = -1$$
(1)

Q42 Here is an accurately drawn pentagon.



a Measure accurately the length of side AE.

111 mm

(1)

b What type of angle is the angle marked x?

Acute

(1)

c Measure the size of the angle marked x.

81°

(1)

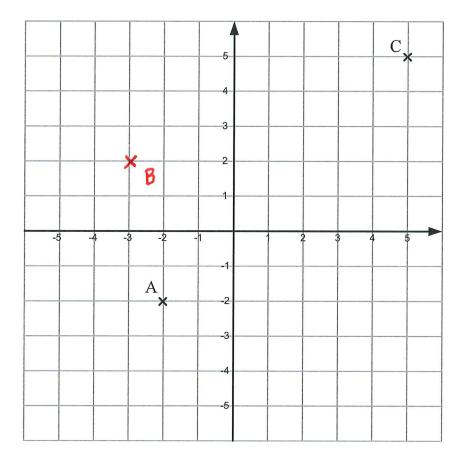
d Mark the angle ABC onto the pentagon above.

(1)

c Measure the size of the exterior angle CDE.

To°

(1)



a Write down the co-ordinates of point A.

b On the grid, mark with a cross the point (-3,2).

Label this point B.

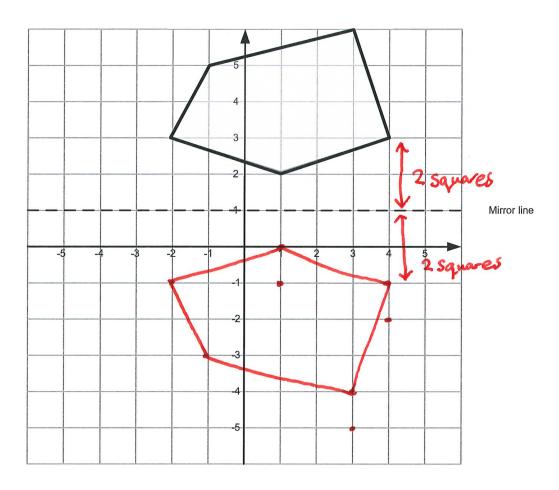
(1)

(1)

c Write down the co-ordinates of the midpoint of AC.

$$\frac{1}{2}$$
: $\frac{-2+5}{2}$ = $\frac{3}{2}$

$$\chi: -\frac{2+5}{2} = \frac{3}{2}$$



a On the grid, reflect the shape in the mirror line.

(2)

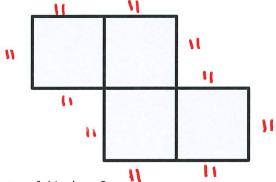
b Write down the equation of the mirror line.

$$y=1$$

Q45 Here is a square with a perimeter of 44cm.

44 ÷ 4 =	11
, ,	

Four of these squares were used to make the shape below.



What is the perimeter of this shape?

A map has a scale of 1:50 000. **Q46**

On the map, a road is 12cm long.

Work out the real length of the road.

Give your answer in kilometres.

Q47 What number is exactly half way between 17 and 38?

$$\frac{17+38}{2} = \frac{55}{2} = 27\frac{1}{2}$$

$$\frac{27\frac{1}{2}}{2}$$
(1)

Q48 What number is exactly half way between 117 and 144?

$$\frac{117 + 144}{2} = \frac{261}{2} = \frac{130\frac{1}{2}}{130\frac{1}{2}}$$

Q49 What number is exactly half way between -83 and 338?

$$\frac{-83+338}{2} = \frac{255}{2} = 1272$$

$$1272$$
(1)

Q50 What number is exactly half way between -31 and 163?

$$\frac{-31+163}{2} = \frac{132}{2} = 66$$

$$\frac{-66}{2}$$

Q51 A map has a scale of 1:25 000.

On the map, a road is 17cm long.

Work out the real length of the road.

- Q52 A map has a scale of 1:25 000.

 On the map, a road is 28cm long.

 Work out the real length of the road.

 Give your answer in kilometres.
- 28×25000 = 700,000

- Q53 A map has a scale of 1:20 000.

 On the map, a road is 15cm long.

 Work out the real length of the road.

 Give your answer in kilometres.
- 20000 x 15

 = 300 000
- - a $4x^2y^4z^3 \times 3x^6z^2$ b $5x^4y^{-2}z^5 \times 2x^3z^5$
- $\frac{10 \times^7 y^{-2} z^{10}}{(2)}$

 $c 5x^3y^5z^3 \times 4x^3y^3$

 $20 \sim \frac{6y^8z^3}{20}$

- **Q55** 600 people were asked what type of film they liked.
 - 340 of the people asked were adults
 - 95 of the adults said they liked romance.
 - 150 of the children said they liked comedy films best.
 - 240 of the people said that they liked crime movies best.
 - 135 of the people said they like romance movies best.
 - a Complete the two-way table

	Romance	Comedy	Crime	Total
Adults	95	75	170	340
Children	40	150	70	260
Total	135	225	240	600

(3)

b One person was selected at random. Find the probability that that person was a child who like crime films best.

$$\frac{70}{600} = \frac{7}{60}$$

(2)

c One person was selected at random. Find the probability that that person was an adult who disliked romance films compared to another category.

$$\frac{245}{600} = \frac{49}{120}$$

.....

(2)

- **Q56** 400 children were in foreign language lessons.
 - 107 Year 11 students selected French.
 - 12 Year 11 students selected Spanish.

Altogether, 29 students chose Spanish.

199 of the students were in Year 10.

196 students from both Years 10 and 11 took French.

a Complete the two-way table

	French	German	Spanish	Total
Year 11	107	82	12	201
Year 10	89	93	17	199
Total	196	175	29	400

One person was selected at random. Find the probability that the student selected was in Year 10 and studying French.

89
400

C One person was selected at random. Find the probability that that person was in Year 11 and not studying German.

(2)

Q57 Look at the function machines below.

Work out the missing quantities.

a

b

$$x \rightarrow +7 \rightarrow x+7$$

С

d

$$8 \rightarrow \times 3 \rightarrow +2 \rightarrow \underline{26}$$

e

$$x \rightarrow \times 3 \rightarrow +2 \rightarrow 3x + 2$$

(1)

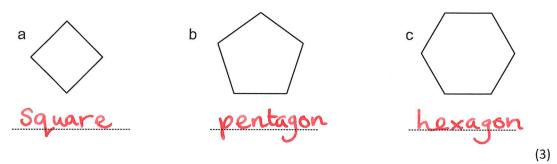
(1)

(1)

f

(1)

Q58 Write down the mathematical names for these polygons.



Q59 Last year, Emily got a quote for her car insurance The quote was for £6,500.

This year, her insurance quote is for 7% less.

Calculate the cost of Emily's insurance quote for this year.

$$\frac{100 - 7}{100} \times 6500 = \frac{93}{100} \times 6500$$

$$= 93 \times 65$$

$$= £6045$$

£6045

Q60 Factorise fully $12q^2 - 4q$