Maths

Maths Multiple-Choice Test 1

Fill in the following particulars:

Name...

Boy or girl..

Date of Birth..

School..

Class..

Today's date..

Read the following carefully:

- Do not open this booklet or begin the test until you are told to do so.
- Mark your answers on the answer sheet provided.
- Work as carefully and quickly as you can.
- If you can not do a question go on to the next one.
- If you make a mistake rub out the mistake and write the new answer.
- You will have 50 minutes to complete the test

Sample Paper

Q1

What is $^3/_5$ as a decimal?
Mark your answer on the answer sheet.

| A) 1.5 | B) 0.2 | C) 0.3 | D) 0.6 | E) 0.01 |

Q2

35,621 can be written as 30,000 + 5,000 + 600 + 20 + 1

What is the value of the 6 in the number 2,654,987?
Mark your answer on the answer sheet.

| A) 600 | B) 600,000 | C) 60 | D) 60,000 | E) 6 |

Q3

How do you write 76,012 in words?
Mark your answer on the answer sheet.

A) seventy six thousand and twelve

B) seven hundred and sixty thousand and twelve

C) seventy thousand and twelve

D) seven thousand six hundred and twelve

E) sixty thousand and twelve

Q4

Which of the following numbers has the largest value?
Mark your answer on the answer sheet.

| A) 5 | B) 0.5 | 8 | D) 50.1 | E) 4.09 |

Q5

On Monday it was 15° Celsius. If each day of the week was 1 degree warmer than the previous day.

What was the temperature on Saturday of that week?
Mark your answer on the answer sheet.

| A) 18° | B) 20 | 19° | D) 16° | E) 17° |

Q6

Sally invited her whole class to her birthday party. Sadly, only one quarter (including Sally) of the class attended. There were 6 girls (including Sally) and 4 boys at her party.

How many people are in Sally's class?
Mark your answer on the answer sheet.

| A) 10 | B) 20 | C) 40 | D) 50 | E) 60 |

Q7

Anne wants to make a cake. The recipe needs 2.5 dozen eggs. She knows one dozen is 12 eggs.

But Anne doesn't know how many eggs are in 2.5 dozen. Do you?
Mark your answer on the answer sheet.

| 24 | B) 25 | C) 18 | D) 6 | E) 30 |

Q8

A farmer has 432 cows. He sells 55 of them at the local market but then buys 27 sheep.

How many animals does he have after his visit to the market?
Mark your answer on the answer sheet.

| A) 404 | B) 487 | C) 350 | D) 460 | E) 514 |

Q9 Brian takes his own age, doubles it and then adds 8 to get his dad's age. Brian's dad is 38.

How old is Brian?

Mark your answer on the answer sheet.

| A) 11 | B) 12 | C) 13 | D) 14 | E) 15 |

Q10

What is 660 divided by 6?

Mark your answer on the answer sheet.

| A) 10 | B) 100 | C) 110 | D) 11 | E) 6 |

Q11 Nicky did a survey on hair colour of all the children in her year. Here are her results.

HAIR COLOUR

blonde

red

grey

brunette

black

= 5 children   = 1 child

Which hair colour is the most common in Nicky's year?

Mark your answer on the answer sheet.

| A) blonde | B) red | C) grey | D) brunette | E) black |

Q12

Which of the following numbers is an even number and also a cube number?

Mark your answer on the answer sheet.

| A) 4 | B) 25 | C) 64 | D) 125 | E) 150 |

Q13 Each square represents 1 square metre.

A

C

B

D

E

Which shape covers the largest area?

Mark your answer on the answer sheet.

| A) A | B) B | C) C | D) D | E) E |

Q14

Which one of the following things is most likely to weigh 30 kg?

Mark your answer on the answer sheet.

| A) an apple | B) a book | C) a car | D) a young girl | E) an elephant |

Q15

How many degrees does the shaded part of the circle represent?
Mark your answer on the answer sheet.

| A) 45° | B) 90° | C) 180° | D) 270° | E) 360° |

Q16

Jenny has £50 but she has to share it with her sisters. She gives $^2/_5$ to her older sister Rachel and $^1/_5$ to her younger sister Susan.

How much does Jenny have left?
Mark your answer on the answer sheet.

| A) £10 | B) £20 | C) £25 | D) £30 | E) £45 |

Q17
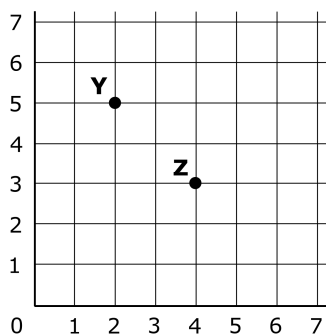
What are the coordinates of the points Y and Z?
Mark your answer on the answer sheet.

| A) Y(2,5) Z(4,3) | B) Y(5,2) Z(3,4) | C) Y(2,0) Z(4,3) | D)) Z(4,4) | E) Y(3,5) Z(2,3) |

Q18
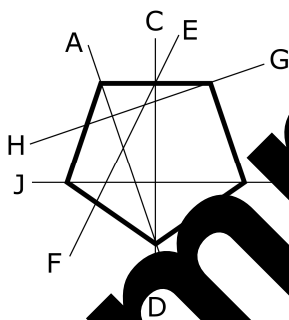
Which line is the line of symmetry of this shape?
Mark your answer on the answer sheet.

| A) | B) CD | C) EF | D) GH | E) IJ |

Q19

What is this shape called?
Mark your answer on the answer sheet.

| A) kite | B) rhombus | C) sphere | D) rectangle | E) pentagon |

Q20 School lunch costs 95p per person each day.

How much does it cost the Smith family for two boys for the whole week (5 days)?
Mark your answer on the answer sheet.

A) 19p	B) £9.50	C) £4.75	D) £475	E) £5

Q21 Here is a design for a garden pond. The scale is 1cm:1m.

4cm
0.5cm
3.5cm
2cm
1.5cm
0.5cm

What will the perimeter of the actual pond be?
Mark your answer on the answer sheet.

A) 120 mm	B) 30 cm	C) 12 cm	D) 12 m	E) 52 m

Q22 Here are the heights of six children.

name	height
James	1.2m
Susan	1m
Colin	1.35m
Jenny	1.4m
Matt	1.6m
Lucy	1.15m

What is the range of heights?
Mark your answer on the answer sheet.

A) 1m	B) 1.28m	C)	D) 1.6m	E) 1.35m

Q23 In a two week period, it rained days the first week and 4 days in the second week.

What proportion of the two weeks was it raining?
Mark your answer on the answer sheet.

A) $^2/_5$	B) $^1/_4$	C) $^4/_7$	D) $^3/_{14}$	E) $^1/_2$

Q24 One banana costs 30p. Cathy has £1.80

How many bananas can she buy?
Mark your answer on the answer sheet.

A) 2	B) 3	C) 4	D) 5	E) 6

Q25 I had a bag of 250 sweets. I ate $^2/_5$ of the sweets in just one hour.

How many do I have left?
Mark your answer on the answer sheet.

A) 50	B) 200	C) 150	D) 100	E) 25

Q26	$2x + 5x = 8 - x$				
	What is the value of x?				
	Mark your answer on the answer sheet.				
	A) 1	B) 2	C) 4	D) 6	E) 8

Q27	Jane takes 1 hour and 45 minutes to do her homework. Kelly takes 3 times as long.
	How many hours does Kelly take?
	Mark your answer on the answer sheet.
	A) 3 hours 45 minutes
	B) 5 hours 15 minutes
	C) 4 hours 30 minutes
	D) 5 hours 30 minutes
	E) 4 hours 45 minutes

Q28	An adult's train ticket to London costs £50. A child's ticket costs $^4/_5$ of an adult's.				
	How much would it cost for Sarah and her mum to catch the train to London?				
	Mark your answer on the answer sheet.				
	A) £60	B) £55	C) £90	D) £	E) £75

Q29	Two rabbits, Jerry and Spot, decided to see who could eat the most carrots in three hours. After one hour, they had each eaten 4 carrots. Over the next two hours, Jerry ate y carrots per hour and Spot ate z carrots per hour. After three hours, Spot had eaten the most.				
	How would you work out how many more carrots Spot had eaten?				
	Mark your answer on the answer sheet.				
	A) 2z - y	B) 2(z + y)	C) 2(z	D) 3(z - y)	E) 4z - 4y

Q30	The usual price of a TV is £110 but it is reduced by 25% in a sale. Jeremy has £80.				
	How much more does he need to be able to afford the TV?				
	Mark your answer on the answer sheet.				
	A) £20	B) £8	C) £2.50	D) £3.25	E) £10.50

Q31	The school has 2 classes in each year 1 to 6. There are 23 children in each class.				
	What is the total number of children in the school?				
	Mark your answer on the answer sheet.				
	A) 500	B) 138	C) 230	D) 46	E) 276

Q32	Mike has 20 pairs of socks: 4 green, 2 black, 5 white, 8 yellow and 1 red.				
	What is the probability that he picks a pair of black socks?				
	Mark your answer on the answer sheet.				
	A)	B) $^1/_{10}$	C) $^1/_4$	D) $^8/_{20}$	E) $^1/_{20}$

Q33	If $2x = y$				
	What is the value of y for x = 3?				
	Mark your answer on the answer sheet.				
	A) 4	B) 6	C) 1.5	D) 5	E) 8

Q34 This graph shows the number of chocolates eaten by Year 6 on each day of the last week.

Chocolates eaten by Year 6
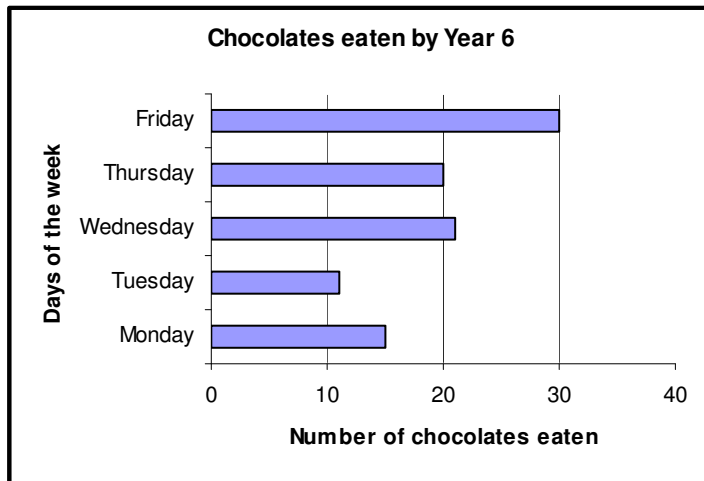
How many more chocolates were eaten on Friday than on Monday?
Mark your answer on the answer sheet.

| A) 15 | B) 10 | C) 45 | D) 8 | E) 5 |

Q35 Here are five fractions: $\frac{1}{2}$, $\frac{2}{4}$, $\frac{7}{8}$, $\frac{3}{5}$, $\frac{1}{6}$

Which is the smallest fraction?
Mark your answer on the answer sheet.

| A) $\frac{1}{2}$ | B) $\frac{2}{4}$ | C) $\frac{7}{8}$ | D) $\frac{3}{5}$ | E) $\frac{1}{6}$ |

Q36 Paul is given £3.20 pocket money each week. He spends some of this on food. Each week, he buys 3 chocolates which cost 30p each and 5 drinks at 20p each.

How much money does he save in two weeks?
Mark your answer on the answer sheet.

| A) £1.90 | B) £3.20 | C) £1.30 | D) £2.60 | E) £6.40 |

Q37 The graph below shows the average number of hours of homework given to children ages 0 - 9 per week.

How many hours of homework are given to a 7 year old?
Mark your answer on the answer sheet.

| A) | B) 3 | C) 4 | D) 5 | E) 6 |

Q38

3cm
5cm
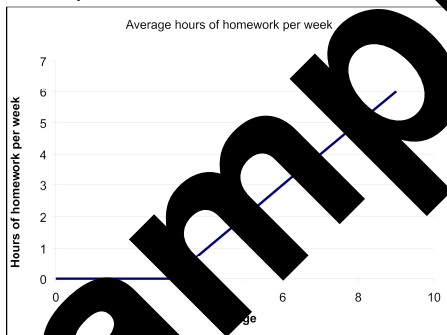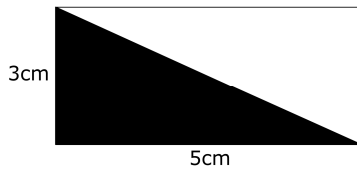
What is the area of the shaded part?
Mark your answer on the answer sheet.

| A) 12cm² | B) 15cm² | C) 3cm² | D) 5cm² | E) 7.5cm² |

Q39 Five friends measure their heights. The results are: 1.2m   1m   1.55m   1.4m   1.75m

What is the median height?
Mark your answer on the answer sheet.

| A) 1.2m | B) 1m | C) 1.55m | D) 1.4m | E) 1.75m |

Q40
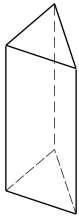
How many edges does this 3D object have?
Mark your answer on the answer sheet.

| A) 3 | B) 6 | C) 7 | D) 8 | E) 9 |

Q41

B
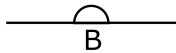
How many degrees is angle B?
Mark your answer on the answer sheet.

| A) 45° | B) 90° | C) 180 | D) 270° | E) 360° |

Q42 Ten cats catch 3 mice each. Two thirds of the mice are brown and the rest are white.

What is the exact number of white mice?
Mark your answer on the answer sheet.

| A) 10 | B) 20 | C) 25 | D) 30 | E) 40 |

Q43 This rectangle has been divided into 4 equal triangles. The width of the rectangle is 2 cm and the length is 4 cm.

2 cm
4 cm
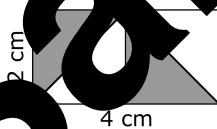
What is the total area of the shaded parts?
Mark your answer on the answer sheet.

| A) 2 cm² | B) 3 cm² | C) 4 cm² | D) 8 cm² | E) 12 cm² |

Q44

What is 0.45 as a percentage?
Mark your answer on the answer sheet.

| A) 45% | B) 4.5% | C) 0.45% | D) 90% | E) 450% |

Q45
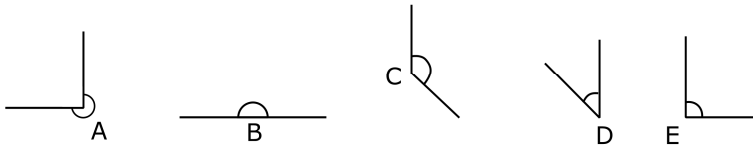
Which of these is an acute angle?
Mark your answer on the answer sheet.

| A) | B) | C) | D) | E) |

Q46

S H O X L

Which of these letters is NOT the same as itself when rotated 180 degrees?
Mark your answer on the answer sheet.

| A) S | B) H | C) O | D) X | E) |

Q47

There were only 6 skipping ropes in the gym and a class of 90 children came for their lesson. So they had to get into groups where each group had one skipping rope.

How many children were in each group?
Mark your answer on the answer sheet.

| A) 90 x 3 | B) 90 ÷ 6 | C) | D) 90 + 6 | E) 90 - 6 |

Q48

Mary has been blindfolded so you need to give her directions to the square. Beginning where it says 'start' and following the stars until she reaches the square.

A	B	C	D	E
move 2 forward	move 5 forward	move 2 forward	move 4 forward	move 2 forward
turn 90º right	turn 90º right	turn 90º left	turn 90º right	turn 90º right
move 3 forward	move 2 forward	move 4 forward	move 3 forward	move 3 forward
turn 90º right	turn 90º right	turn 90º left	turn 90º right	turn 90º left
move 6 forward	move 6 forward	move 6 forward	move 6 forward	move 6 forward
turn 90º right	turn 90º right	turn 90º right	turn 90º right	turn 90º right
move 4 forward	move 4 forward	move 4 forward	move 3 forward	move 4 forward
turn 90º left	turn 90º left	turn 90º left	turn 90º left	turn 90º left
move 3 forward	move 3 forward	move 3 forward	move 3 forward	move 3 forward

Which set of directions will you give her?
Mark your answer on the answer sheet.

| A) A | B) B | C) C | D) D | E) E |

Q49

63	72	81
72	81	90
81	90	?

What number should replace the question mark?
Mark your answer on the answer sheet.

| A) 49 | B) 99 | C) 110 | D) 61 | E) 1 |

Q50 In January a worm was 2.5 cm in length. By December it was 8 cm.

How much had it grown from January to December?
Mark your answer on the answer sheet.

| A) 4.5 cm | B) 6.5 cm | C) 5.5 cm | D) 5 cm | E) 8 cm |

Answer Sheet

Maths Multiple-Choice Test 1

Q1	
1.5	☐
0.2	☐
0.3	☐
0.6	☐
0.01	☐

Q2	
600	☐
600,000	☐
60	☐
60,000	☐
6	☐

Q3	
seventy six thousand and twelve	☐
seven hundred and sixty thousand and twelve	☐
seventy thousand and twelve	☐
seven thousand six hundred and twelve	☐
sixty thousand and twelve	☐

Q4	
5	☐
0.5	☐
1.8	☐
50.1	☐
4.09	☐

Q5	
18°	☐
20°	☐
19°	☐
16°	☐
17°	☐

Q6	
10	☐
20	☐
40	☐
50	☐
60	☐

Q7	
24	☐
25	☐
18	☐
6	☐
30	☐

Q8	
404	☐
487	☐
350	☐
460	☐
514	☐

Q9	
	☐
12	☐
3	☐
	☐
15	☐

Q10	
10	☐
100	☐
110	☐
11	☐
6	☐

Q11	
blonde	☐
red	☐
grey	☐
brunette	☐
black	☐

Q12	
4	☐
25	☐
64	☐
125	☐
150	☐

Q13	
	☐
	☐
C	☐
D	☐
E	☐

Q14	
an apple	☐
a book	☐
a car	☐
a young girl	☐
an elephant	☐

Q15	
45°	☐
90°	☐
180°	☐
270°	☐
360°	☐

Q16	
£10	☐
£20	☐
£25	☐
£30	☐
£45	☐

Q17	
Y(2,5) Z(4,3)	☐
Y(5,2) Z(3,4)	☐
Y(2,0) Z(4,)	☐
Y(2,6)	☐
Y(3,5) Z(2,)	☐

Q18	
AB	☐
CD	☐
EF	☐
GH	☐
IJ	☐

Q19	
kite	☐
rhombus	☐
sphere	☐
rectangle	☐
pentagon	☐

Q20	
19p	☐
£9.50	☐
£4.75	☐
£475	☐
£5	☐

Q21	
120 mm	☐
30 cm	☐
12 cm	☐
12	☐
52	☐

Q22	
	☐
1.28m	☐
0.6m	☐
1.6m	☐
1.35m	☐

Q23	
$^2/_5$	☐
$^1/_4$	☐
$^4/_7$	☐
$^3/_{14}$	☐
$^1/_2$	☐

Q24	
2	☐
3	☐
4	☐
5	☐
6	☐

Q25	
50	☐
200	☐
150	☐
100	☐
25	☐

Q26	
	☐
	☐
4	☐
6	☐
8	☐

Q27	
3 hours 45 minutes	☐
5 hours 15 minutes	☐
4 hours 30 minutes	☐
5 hours 30 minutes	☐
4 hours 45 minutes	☐

Q28	
£60	☐
£55	☐
£90	☐
£120	☐
£75	☐

Q29	
2z - y	☐
2(z + y)	☐
2(z - y)	☐
3(z - y)	☐
4z - 4y	☐

Q30	
£20	☐
£8	☐
£2.50	☐
£3.25	☐
£10.50	☐

Q31	Q32	Q33	Q34	Q35
500 ☐	$^4/_{20}$ ☐	4 ☐	15 ☐	$^1/_2$ ☐
138 ☐	$^1/_{10}$ ☐	6 ☐	10 ☐	$^2/_4$ ☐
230 ☐	$^1/_4$ ☐	1.5 ☐	45 ☐	$^7/_8$ ☐
46 ☐	$^8/_{20}$ ☐	5 ☐	8 ☐	$^3/_5$ ☐
276 ☐	$^1/_{20}$ ☐	8 ☐	5 ☐	$^1/_6$ ☐

Q36	Q37	Q38	Q39	Q40
£1.90 ☐	2 ☐	12cm^2 ☐	1.2m ☐	3 ☐
£3.20 ☐	3 ☐	15cm^2 ☐	1m ☐	6 ☐
£1.30 ☐	4 ☐	3cm^2 ☐	1.55m ☐	7 ☐
£2.60 ☐	5 ☐	5cm^2 ☐	1.4m ☐	8 ☐
£6.40 ☐	6 ☐	7.5cm^2 ☐	1.75m ☐	9 ☐

Q41	Q42	Q43	Q44	Q45
45° ☐	10 ☐	2 cm^2 ☐	45% ☐	A ☐
90° ☐	20 ☐	3 cm^2 ☐	4.5% ☐	B ☐
180° ☐	25 ☐	4 cm^2 ☐	0.45% ☐	C ☐
270° ☐	30 ☐	8 cm^2 ☐	90% ☐	D ☐
360° ☐	40 ☐	12 cm^2 ☐	450% ☐	E ☐

Q46	Q47	Q48	Q49	Q50
S ☐	90 x 3 ☐	A ☐		4.5 cm ☐
H ☐	90 ÷ 6 ☐	B ☐	99 ☐	6.5 cm ☐
O ☐	6 x 90 ☐	C ☐	0 ☐	5.5 cm ☐
X ☐	90 + 6 ☐	D ☐		5 cm ☐
L ☐	90 - 6 ☐	E ☐	1 ☐	8 cm ☐

Answers

Maths Multiple-Choice Test 1

Q1
- 1.5
- 0.2
- 0.3
- 0.6 [X]
- 0.01

Q2
- 600
- 600,000 [X]
- 60
- 60,000
- 6

Q3
- seventy six thousand and twelve
- seven hundred and sixty thousand and twelve [X]
- seventy thousand and twelve
- seven thousand six hundred and twelve
- sixty thousand and twelve

Q4
- 5
- 0.5
- 1.8
- 50.1 [X]
- 4.09

Q5
- 18°
- 20° [X]
- 19°
- 16°
- 17°

Q6
- 10
- 20
- 40 [X]
- 50
- 60

Q7
- 24
- 25
- 18
- 6
- 30 [X]

Q8
- 404 [X]
- 487
- 350
- 460
- 514

Q9
- 11
- 12
- 110
- 14
- 5

Q10
- 10
- 100
- 110 [X]
- 11
- 6

Q11
- blonde
- red
- grey
- brunette [X]
- black

Q12
- 4
- 25
- 64 [X]
- 125
- 150

Q13
- A
- E

Q14
- a book
- a car
- a young girl [X]
- an elephant

Q15
- 45°
- 90°
- 180°
- 270° [X]
- 360°

Q16
- £10
- £20 [X]
- £25
- £30
- £45

Q17
- Y(2,5) Z(4,3) [X]
- Y(5,2) Z(3,4)
- Y(2,0) Z(4,3)
- Y(2,6) Z(4,4)
- Y(3,5) Z(2,?)

Q18
- AB
- CD [X]
- EF
- GH
- IJ

Q19
- kite
- rhombus
- sphere
- rectangle
- pentagon [X]

Q20
- 19p
- £9.50 [X]
- £4.75
- £475
- £5

Q21
- 120 mm
- 30 cm
- 12 cm
- 12 m [X]
- 52 m

Q22
- 1m
- ?m
- 0.? [X]
- 1.6m
- 1.35m

Q23
- $^2/_5$
- $^1/_4$
- $^4/_7$ [X]
- $^3/_{14}$
- $^1/_2$

Q24
- 2
- 3
- 4
- 5
- 6 [X]

Q25
- 50
- 200
- 150 [X]
- 100
- 25

Q26
- 2
- 8

Q27
- 3 hours 45 minutes
- 5 hours 15 minutes [X]
- 4 hours 30 minutes
- 5 hours 30 minutes
- 4 hours 45 minutes

Q28
- £60
- £55
- £90 [X]
- £120
- £75

Q29
- 2z - y
- 2(z + y)
- 2(z - y) [X]
- 3(z - y)
- 4z - 4y

Q30
- £20
- £8
- £2.50 [X]
- £3.25
- £10.50

Q31
- 500
- 138
- 230
- 46
- 276 [X]

Q32
- $^4/_{20}$
- $^1/_{10}$
- $^1/_4$
- $^8/_{20}$
- $^1/_{20}$

Q33
- 4
- 6 [X]
- 1.5
- 5
- 8

Q34
- 15 [X]
- 10
- 45
- 8
- 5

Q35
- $^1/_2$
- $^2/_4$
- $^7/_8$
- $^3/_5$
- $^1/_6$ [X]

Q36		Q37		Q38		Q39		Q40	
£1.90	☐	2	☐	12cm²	☐	1.2m	☐	3	☐
£3.20	☐	3	☐	15cm²	☐	1m	☐	6	☐
£1.30	☐	4	▭	3cm²	☐	1.55m	☐	7	☐
£2.60	▭	5	☐	5cm²	☐	1.4m	▭	8	☐
£6.40	☐	6	☐	7.5cm²	▭	1.75m	☐	9	▭

Q41		Q42		Q43		Q44		Q45	
45°	☐	10	▭	2 cm²	☐	45%	▭	A	☐
90°	☐	20	☐	3 cm²	☐	4.5%	☐	B	☐
180°	▭	25	☐	4 cm²	▭	0.45%	☐	C	☐
270°	☐	30	☐	8 cm²	☐	90%	☐	D	▭
360°	☐	40	☐	12 cm²	☐	450%	☐	E	☐

Q46		Q47		Q48		Q49		Q50	
S	☐	90 x 3	☐	A	☐	49	☐	4.5 cm	☐
H	☐	90 ÷ 6	▭	B	☐	99	▭	6.5 cm	☐
O	☐	6 x 90	☐	C	☐	110	☐	5.5 cm	▭
X	☐	90 + 6	☐	D	☐	61	☐	5 cm	☐
L	▭	90 - 6	☐	E	▭	1	☐	8 cm	☐

Sample Paper