

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

11PlusSwot Sample Paper

Copyright © 11PlusSwot.co.uk. 2004 Created 06 January 2005
All rights reserved. This document has been made available to for viewing and printing by registered members of the 11PlusSwot Club only. No part of this publication may be reproduced or transmitted in any form or by any means electronic or mechanical including photocopying, recording or duplication in any storage and retrieval system without written permission from the publishers and may not be photocopied or otherwise reproduced within the terms of any licence granted by the Copyright Licensing Agency Ltd.

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	C) 1.8	D) 50.1	E) 4.09

Q5

On Monday it was 15° Celsius. If each day of the week got 2 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°	C) 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 bake a cake. The recipe needs 2.5 dozen eggs. She knows one dozen is 12 eggs.

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

A) 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

11PlusSwot Sample Paper

Copyright © 11PlusSwot.co.uk 2004 - Maths Multi-Choice 1.doc
Licensed to: 11PlusSwot

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.

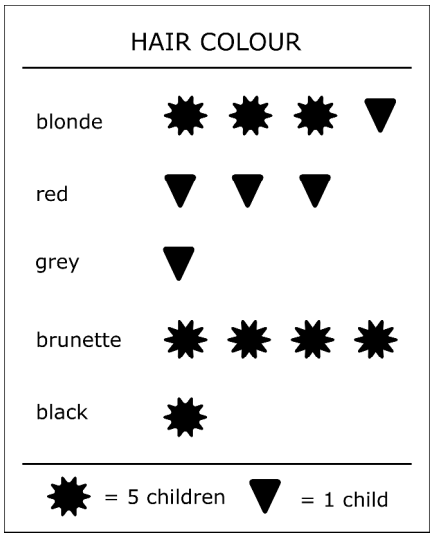
A) 11 B) 12 C) 13 D) 14 E) 15

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.



Which hair colour is the most common in Nicky's year?
Mark your answer on the answer sheet.

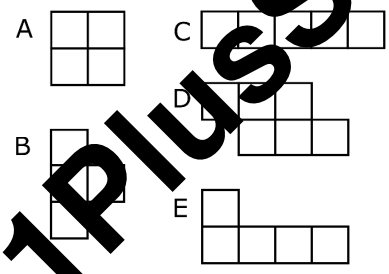
A) blonde B) red C) grey D) brunette E) black

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.



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

11PlusSwot Sample Paper

Copyright © 11PlusSwot.co.uk 2004 - Maths Multi-Choice 1.doc
Licensed to: 11PlusSwot

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°

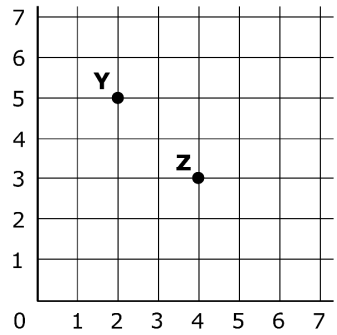
Q16

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

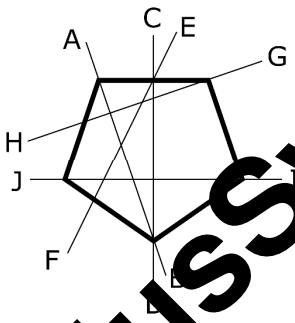
Q17



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) Y(2,6) 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) AB 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

11PlusSwot Sample Paper

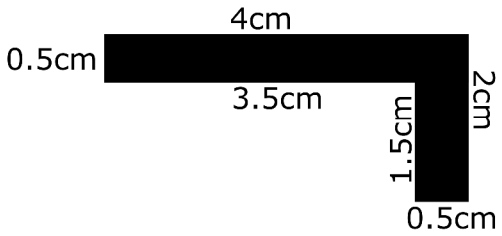
Copyright © 11PlusSwot.co.uk 2004 - Maths Multi-Choice 1.doc
Licensed to: 11PlusSwot

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.



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) 0.6m D) 1.6m E) 1.35m

Q23 In a two week period, it rained 3 days in 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

11PlusSwot Sample Paper

Copyright © 11PlusSwot.co.uk 2004 - Maths Multi-Choice 1.doc
Licensed to: 11PlusSwot

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) £1[illegible] 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 mo[illegible]

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 - y) D) 3(z - y) E) 4z - 4y

Q30 The usual price of a TV is £110 but it is redu[illegible]d 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 2[illegible] 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) $^4/_{20}$ B) $^1/_{10}$ C) $^1/_4$ D) $^8/_{20}$ E) $^1/_{20}$

Q33 If $2x = y$

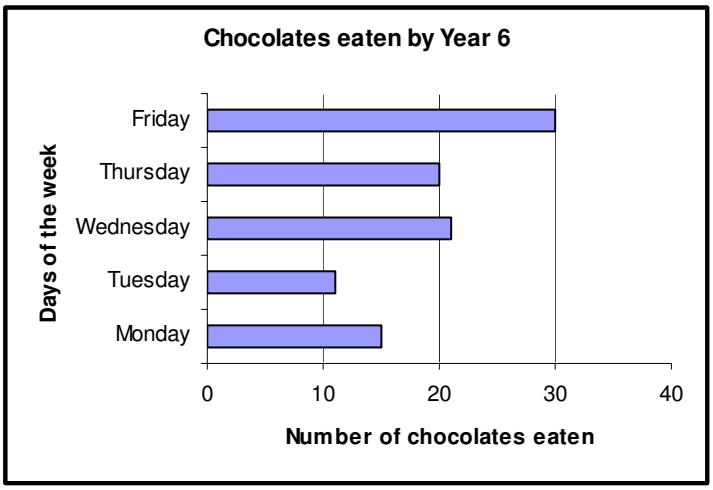
What is the value of y for x = 3?
Mark your answer on the answer sheet.

A) 4 B) 6 C) 1.5 D) 5 E) 8

11PlusSwot Sample Paper

Copyright © 11PlusSwot.co.uk 2004 - Maths Multi-Choice 1.doc
Licensed to: 11PlusSwot

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



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: $^1/_2$, $^2/_4$, $^7/_8$, $^3/_5$, $^1/_6$

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

A) $^1/_2$ B) $^2/_4$ C) $^7/_8$ D) $^3/_5$ E) $^1/_6$

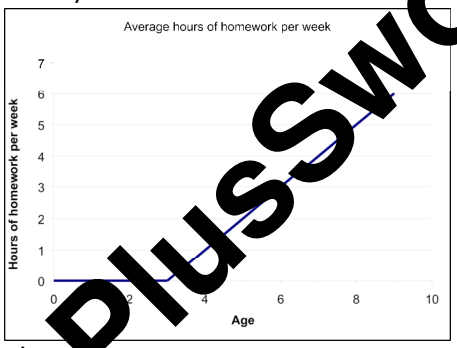
Q36 Paul is given £3.20 pocket money each week. He spends some of it on food. Each week, he buys 3 chocolates which cost 30p each and 5 drinks at 20p each.

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

A) £1.90 B) £3.20 C) £2.30 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.

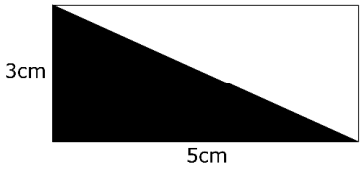


A) 2 B) 3 C) 4 D) 5 E) 6

11PlusSwot Sample Paper

Copyright © 11PlusSwot.co.uk 2004 - Maths Multi-Choice 1.doc
Licensed to: 11PlusSwot

Q38



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

A) 12cm^2 B) 15cm^2 C) 3cm^2 D) 5cm^2 E) 7.5cm^2

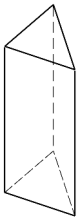
Q39

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

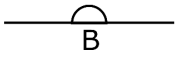
Q40



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



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

A) 45° B) 90° C) 180° D) 270° E) 360°

Q42

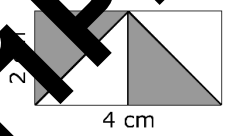
Ten cats catch 3 mice each. Two thirds of the mice are brown and the rest are white.

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.



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

A) 2 cm^2 B) 3 cm^2 C) 4 cm^2 D) 8 cm^2 E) 12 cm^2

11PlusSwot Sample Paper

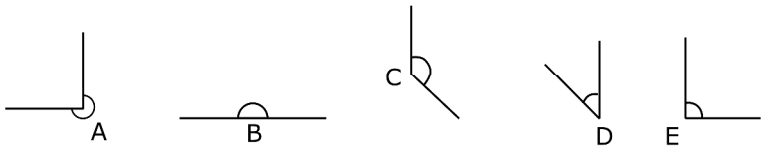
Copyright © 11PlusSwot.co.uk 2004 - Maths Multi-Choice 1.doc
Licensed to: 11PlusSwot

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) L

Q47

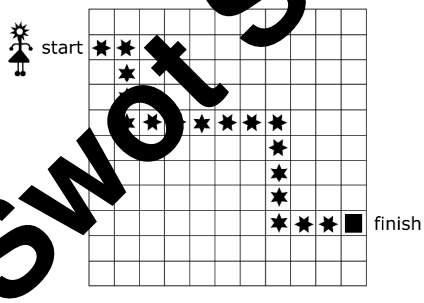
There were only 6 skipping ropes in the gym and a class of 90 children came for their lesson. So they had to get into groups where each group had one skipping rope.

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

A) 90 x 3 B) 90 ÷ 6 C) 6 x 90 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 3 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

11PlusSwot Sample Paper

Copyright © 11PlusSwot.co.uk 2004 - Maths Multi-Choice 1.doc
Licensed to: 11PlusSwot

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

11PlusSwot Sample Paper

Copyright © 11PlusSwot.co.uk 2004 - Maths Multi-Choice 1.doc
Licensed to: 11PlusSwot

11PlusSwot.co.uk

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
11
13
14
15

Q10
10
100
110
11
6

Q11
blonde
red
grey
brunette
black

Q12
4
25
64
125
150

Q13
A
B
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(4,3)
Y(2,6) Z(4,[illegible])
Y([illegible],5) Z([illegible])

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[illegible]
52 m

Q22
1m
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
1
2
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

11PlusSwot Sample Paper

Copyright © 11PlusSwot.co.uk 2004

Q31
500
138
230
46
276

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

Q33
4
6
1.5
5
8

Q34
15
10
45
8
5

Q35
$^{1}/_{2}$
$^{2}/_{4}$
$^{7}/_{8}$
$^{3}/_{5}$
$^{1}/_{6}$

Q36
£1.90
£3.20
£1.30
£2.60
£6.40

Q37
2
3
4
5
6

Q38
12cm^2
15cm^2
3cm^2
5cm^2
7.5cm^2

Q39
1.2m
1m
1.55m
1.4m
1.75m

Q40
3
6
7
8
9

Q41
45°
90°
180°
270°
360°

Q42
10
20
25
30
40

Q43
2 cm^2
3 cm^2
4 cm^2
8 cm^2
12 cm^2

Q44
45%
4.5%
0.45%
90%
450%

Q45
A
B
C
D
E

Q46
S
H
O
X
L

Q47
90 x 3
90 ÷ 6
6 x 90
90 + 6
90 - 6

Q48
A
B
C
D
E

Q49
9
110
61
1

Q50
4.5 cm
6.5 cm
5.5 cm
5 cm
8 cm

11PlusSwot Sample Paper

Copyright © 11PlusSwot.co.uk 2004

Answers

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	
11	
12	
13	
[illegible]	
15	✓

Q10	
10	
100	
110	✓
11	
6	

Q11	
blonde	
red	
grey	
brunette	✓
black	

Q12	
4	
25	
64	✓
125	
150	

Q13	
A	
B	
C	
D	
[illegible]	

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(4,3)	
Y(2,6) Z(4,4)	
Y(3,5) Z(2,3)	

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 m	✓
52 m	

Q22	
[illegible]	
[illegible]	
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	
1	✓
[illegible]	
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	
500	
138	
230	
46	
276	✓

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

Q33	
4	
6	✓
1.5	
5	
8	

Q34	
15	✓
10	
45	
8	
5	

Q35	
$^{1}/_{2}$	
$^{2}/_{4}$	
$^{7}/_{8}$	
$^{3}/_{5}$	
$^{1}/_{6}$	✓

11PlusSwot Sample Paper

Copyright © 11PlusSwot.co.uk 2004

Q36
£1.90
£3.20
£1.30
£2.60
£6.40

Q37
2
3
4
5
6

Q38
12cm^2
15cm^2
3cm^2
5cm^2
7.5cm^2

Q39
1.2m
1m
1.55m
1.4m
1.75m

Q40
3
6
7
8
9

Q41
45°
90°
180°
270°
360°

Q42
10
20
25
30
40

Q43
2 cm^2
3 cm^2
4 cm^2
8 cm^2
12 cm^2

Q44
45%
4.5%
0.45%
90%
450%

Q45
A
B
C
D
E

Q46
S
H
O
X
L

Q47
90 x 3
90 ÷ 6
6 x 90
90 + 6
90 - 6

Q48
A
B
C
D
E

Q49
49
99
110
61
1

Q50
4.5 cm
6.5 cm
cm
5 cm
8 cm

11PlusSwot Sample Paper

Copyright © 11PlusSwot.co.uk 2004