

START HERE

MARK
✓ or X

Q. 1–5

addition and subtraction problems

- 1 Add together seven million, twelve million and two hundred thousand and four. _____
- 2 What number is equal to the sum of four thousand and nineteen and seven thousand five hundred and ten? _____
- 3 A number is as much above 6050 as 3402 is below it. What is that number? _____
- 4 For a school concert, 390 tickets were sold at £1. A further 758 were sold at £2 and 428 at £3. How many people were at the concert? _____
- 5 If I take 93 plums from a basket there are 125 left. How many were in the basket at first? _____

- 1
- 2
- 3
- 4
- 5

Q. 6–10

timetables

This is Isha's timetable for each school day after morning assembly.

	0920 to 1000	1000 to 1040	1040 to 1100		1120 to 1200		1330 to 1400	1400 to 1515
<i>Mon</i>	Maths	French	English	B	History	L	P.E.	Science
<i>Tues</i>	Maths	Geography	English	R	Music	U	French	Games
<i>Wed</i>	English	French	Maths	E	Library	N	English	Swimming
<i>Thurs</i>	Science	Maths	French	A	English	C	I.C.T.	I.C.T.
<i>Fri</i>	Maths	English	English	K	R.S.	H	P.E.	Drama

- 6 If Isha goes into assembly at 0855, how long is her school day? _____ h _____ min
- 7 How much time each week is spent in English classes? _____ h _____ min
- 8 How much time each week is devoted to Maths? _____ h _____ min
- 9 How much longer is the morning session (starting at 0855) than the afternoon session? _____ h _____ min
- 10 How much time each week is allowed for P.E., games and swimming? _____ h _____ min

- 6
- 7
- 8
- 9
- 10

Q. 11–15

writing large numbers

Write each of these numbers in figures.

- 11 four million and five _____
- 12 five million five hundred and two _____
- 13 eight million six hundred and two thousand and sixty-two _____
- 14 nine and three-quarter million _____
- 15 one hundred and thirty-six million four hundred thousand seven hundred and thirty-five _____

- 11
- 12
- 13
- 14
- 15

MARK

Q. 16–20

mass
problems

16 How many tonnes are in 69 750 kg? _____ t

16

17 What must be added to 748 kg to make $3\frac{1}{8}$ tonnes? _____ t _____ kg

17

18 Four crates weigh $70\frac{1}{2}$ kg, $46\frac{3}{8}$ kg, $82\frac{3}{10}$ kg and 39.6 kg. What is their total mass? _____ kg _____ g

18

19 Subtract 0.9 kg from $3\frac{1}{4}$ kg and multiply your answer by three. _____ kg _____ g

19

20 At a summer camp $4\frac{1}{2}$ kg of casserole was cooked for 25 children. How much casserole did each child receive? _____ g

20

Q. 21–25

decimal
problems

21 How many seconds are there in 0.75 of one minute? _____ s

21

22 How many centimetres are there in 0.01 of one metre? _____ cm

22

23 How many minutes are there in 0.3 of half an hour? _____ min

23

24 How many pence are there in £1.26? _____ p

24

25 How many minutes are there in 0.7 of $1\frac{1}{2}$ hours? _____ min

25

Q. 26–30

percentage
problems

26 What is 50% of £45? £ _____

26

27 What is 15% of 2 tonnes? _____ kg

27

28 What is 30% of 30 kilograms? _____ kg

28

29 What is 90% of 80? _____

29

30 What is 30% of 70 metres? _____ m

30

Q. 31–35

long
division

31
 $28 \overline{) 21\ 168}$

32
 $42 \overline{) 36\ 246}$

33
 $55 \overline{) 21\ 120}$

34
 $39 \overline{) 9399}$

35
 $62 \overline{) 53\ 134}$

31

32

33

34

35

MARK

Q. 36–40
using money

Work out the total for each line of this receipt. Then check that they all add up to the total given.

Paint Pots and Power Tools		£ . p
<i>DIY Stores</i>		
36	12 litres varnish at £2.47 per litre =	
37	12 litres paint at £2.26 per litre =	
38	18 bags of nails at £6.42 per bag =	
39	7 dozen tubes of glue at 54p each =	
40	6 packets of seeds at £2.39 each =	
Total =		232.02

- 36
- 37
- 38
- 39
- 40

Q. 41–45
sequences

Write the next two terms in each of these sequences.

- | | | | | | | |
|-----------|------|----------------|----------------|------------------|-------|-------|
| 41 | 110 | 100 | 91 | 83 | _____ | _____ |
| 42 | 144 | 121 | 100 | 81 | _____ | _____ |
| 43 | 1 | 6 | 36 | 216 | _____ | _____ |
| 44 | 2036 | 1018 | 509 | $254\frac{1}{2}$ | _____ | _____ |
| 45 | 7 | $6\frac{1}{4}$ | $5\frac{1}{2}$ | $4\frac{3}{4}$ | _____ | _____ |

- 41
- 42
- 43
- 44
- 45

Q. 46–50
time problems

- 46** A lighthouse beam flashes every 12 seconds.
How many times will it flash in a day? _____
- 47** Adam leaves Leeds at 0815 and arrives in Birmingham $3\frac{2}{5}$ h later. At what time does he arrive? _____
- 48** How many seconds are in $2\frac{1}{4}$ h? _____ s
- 49** A machine produces one pencil every 4 seconds.
How many will it produce between 0900 and 1830? _____
- 50** How many days are there in the first three months of a leap year? _____ d

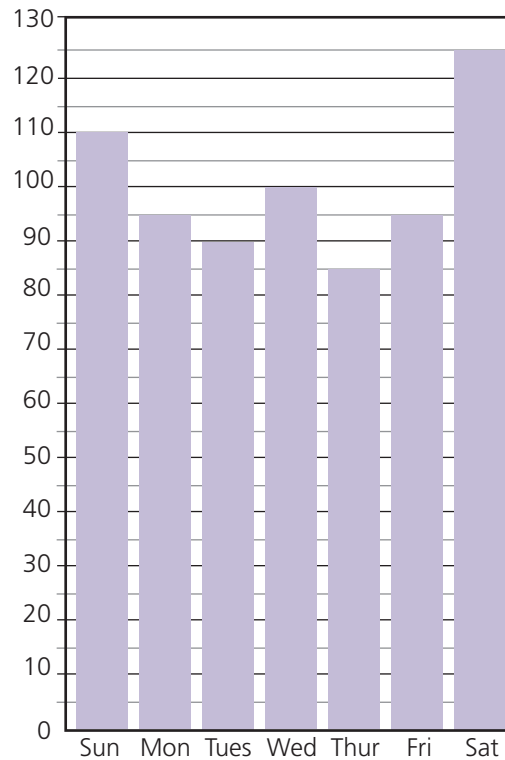
- 46
- 47
- 48
- 49
- 50

MARK

Q. 51–55

bar charts

This chart shows the number of cans of lemonade sold by a corner shop in the course of a week.



- 51** How many more cans were sold on Saturday than on Thursday? _____
- 52** How many cans altogether were sold on the two busiest days? _____
- 53** How many cans were sold altogether in the week? _____
- 54** What fraction of the week's total was sold on Wednesday? _____
- 55** What was the average number of cans sold each day? _____

51

52

53

54

55

Q. 56–60

money problems

- 56** My insurance costs £693 for 18 months. How much do I pay each month? £ _____
- 57** A charity advertisement said that £100 could save the sight of eight people. How much is this per person? £ _____
- 58** What is half the difference between £74.68 and £35.22? £ _____
- 59** What sum of money added to itself is equal to half of £40? £ _____
- 60** If you share £220.80 equally among twelve people, how much will each get? £ _____

56

57

58

59

60

MARK

Q. 61–65

24-hour
clock

Change these a.m. and p.m. times to 24-hour times.

61 12.04 a.m. _____

61

62 1.00 a.m. _____

62

63 11.45 a.m. _____

63

64 2 p.m. _____

64

65 4.00 p.m. _____

65

Q. 66–70

mean,
median
mode,
and range

Look at the group of numbers below.

18 27 36 18 26

66 What is the mean of these numbers? _____

66

67 What is the mode? _____

67

68 What is the median? _____

68

69 What is the range? _____

69

70 Replace one of the 18s with 33. What is the new mean? _____

70

Q. 71–75

measures
addition and
subtraction

71 £74.63 + £59.72 + £64.36 = £ _____

<p>72 kg g</p> <p style="margin-left: 20px;">27 399</p> <p style="margin-left: 20px;">4 063</p> <p style="margin-left: 20px;">+ 143 746</p> <p style="margin-left: 20px;">_____</p>	<p>73 l ml</p> <p style="margin-left: 20px;">17 642</p> <p style="margin-left: 20px;">18 779</p> <p style="margin-left: 20px;">+ 3 847</p> <p style="margin-left: 20px;">_____</p>
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71

72

73

74 Add together $2\frac{1}{2}$ km, $14\frac{1}{8}$ km, $7\frac{1}{5}$ km and 12.6 km. _____ km

74

75 Take 145 minutes from $4\frac{1}{5}$ hours. _____ h _____ min

75

Q. 76–80

ratio and
proportion

Ruby is 6, Edward is 8, Claire is 9, David is 14 and Emma is 15. They are given birthday money in the ratio of their ages. In total they receive £156. How much do they each receive?

76 Ruby £ _____

76

77 Edward £ _____

77

78 Claire £ _____

78

79 David £ _____

79

80 Emma £ _____

80

Q. 81–85
algebra

Write each of these sentences in the form of an equation,

e.g. If 3 is added to x , the answer is 15.

$3 + x = 15$

81 number a is 5 more than 6

82 6 less than b is 13

83 4 subtracted from c is equal to 9

84 d added to 3 gives 7

85 16 is the result of multiplying e by 2

- 81**
- 82**
- 83**
- 84**
- 85**

Q. 86–90

measures
multiplication
and division

86 £ . p
 372.86

_____ × 9

87 l ml
 678 507

_____ × 11

88 7 h 40 min 55 s × 5 = _____ h _____ min _____ s

89 22.5km ÷ 4 = _____ km

90 300.3kg ÷ 11 = _____ kg

- 86**
- 87**
- 88**
- 89**
- 90**

Q. 91–95

perimeters

91 What is the perimeter of this shape?

36cm²

_____ cm

92 If the length of a rectangle is three times its 4 cm width, what is its perimeter?

_____ cm

93 What is the perimeter of a field $\frac{3}{4}$ km long and 0.2 km wide?

_____ m

94 If the perimeter of a rectangle is 54 cm and its length is 18 cm, what is its width?

_____ cm

95 If the perimeter of a rectangle is 6 times its 6 cm width, what is its length?

_____ cm

- 91**
- 92**
- 93**
- 94**
- 95**

Q. 96–100

probability

There are 52 cards in a pack.

96 If I draw out one card, what is the probability that it will be an ace?

_____ in _____

97 What is the probability that it will be a red card?

_____ in _____

98 What is the probability that it will be a black card?

_____ in _____

99 What is the probability that it will be the three of clubs?

_____ in _____

100 What is the probability that it will be the three of any suit?

_____ in _____

- 96**
- 97**
- 98**
- 99**
- 100**

END OF TEST

SAMPLE PAPER TOTAL MARK

Sample Paper

- 1** 19200004
2 11529
3 8698
4 1576
5 218

6 6 h 20 min
7 3 h 30 min
8 3 h 0 min
9 1 h 20 min
10 3 h 30 min

11 4000005
12 5000502
13 8602062
14 9750000
15 136400735

16 $69\frac{3}{4}$ t
17 2 t 377 kg
18 238 kg 775 g
19 7 kg 50 g
20 180 g

21 45 s
22 1 cm
23 9 min
24 126p
25 63 min

26 £22.50
27 300 kg
28 9 kg
29 72
30 21 m

31 756
32 863
33 384
34 241
35 857

36 £29.64
37 £27.12
38 £115.56
39 £45.36
40 £14.34

41 76, 70
42 64, 49
43 1296, 7776
44 $127\frac{1}{4}$, $63\frac{5}{8}$
45 4, $3\frac{1}{4}$

Sample Paper – continued

- 46** 7200
47 1139
48 8100 s
49 8550
50 91 d

51 40
52 235
53 700
54 $\frac{1}{7}$
55 100

56 £38.50
57 £12.50
58 £19.73
59 £10
60 £18.40

61 0004
62 0100
63 1145
64 1400
65 1600

66 25
67 18
68 26
69 18
70 28

71 £198.71
72 175208 g
73 40268 ml
74 36.425 km
75 1 h 47 min

76 £18
77 £24
78 £27
79 £42
80 £45

81 $a = 6 + 5$
82 $b - 6 = 13$
83 $c - 4 = 9$
84 $3 + d = 7$
85 $e \times 2 = 16$

86 £3355.74
87 7463577 ml
88 38 h 24 min 35 s
89 5.625 km
90 27.3 kg

Sample Paper – continued

- 91** 24 cm
92 32 cm
93 1900 m
94 9 cm
95 12 cm

96 1 in 13
97 1 in 2
98 1 in 2
99 1 in 52
100 1 in 13