Maths Answers

Lesson 1

Adding 4-Digit Numbers with Carrying: Answers

question	answer
1	11884
2	10053
3	10483
4	10336
5	18753
6	10467
7	18260
8	14852
9	5181
10	16225
11	10162
12	12971
13	12535
14	11598
15	10078
16	12452
Challenge.	
1	2**1**32 + 31**52** = **5**284
2	96**17** + 6**5**80 = **16** 197
3	25**6**7 + **5**39**8** = 7**9**65
4	**8821** + **2**060 = **1**0 **8**8**1**

Lesson 2

Addition and Subtraction 4-Digit Worded Calculations: Answers

question	answer	
1	4695 + 3006 = **7701**	
2	8053 - 6725 = **1328**	
3	5138 - 4237 = **901**	
4	5076 - 4340 = **9416**	
5	3212 - 2046 = **1166**	
6	£78.46 + £23.71 = **£102.17**	
7	7001 - 5002 = **1999**	
8	£76.83 + £22.71 = **£99.54**	
9	6060 + 2413 = **8473**	
10	2973 - 628 = **2345**	
11	£87.00 - £45.62 = **£41.38**	
12	4612 - 960 = **3652**	
13	£8000 - £6712 = **£1288**	
14	4651 - 2097 = **2554**	
15	8907 - 6719 = **2188**	
Challenge.		
	1234 + 8765 = 9999	3124 + 6875 = 9999
	1243 + 8756 = 9999	3142 + 6857 = 9999
	1324 + 8675 = 9999	3214 + 6785 = 9999
	1342 + 8657 = 9999	3241 + 6758 = 9999
	1423 + 8576 = 9999	3412 + 6587 = 9999
	1432 + 8567 = 9999	3421 + 6578 = 9999
	2134 + 7865 = 9999	4123 + 5876 = 9999
	2143 + 7856 = 9999	4132 + 5867 = 9999
	2314 + 7685 = 9999	4213 + 5786 = 9999
	2341 + 7658 = 9999	4231 + 5768 = 9999
	2413 + 7586 = 9999	4312 + 5687 = 9999
	2431 + 7568 = 9999	4321 + 5678 = 9999

Lesson 3

Q1.

Award **THREE** marks for the correct answer of 7,174

If the answer is incorrect, award **TWO** marks for:

- evidence of an appropriate complete method which contains no more than **ONE** arithmetic error, e.g.

$$\begin{array}{r} 53 \\ \times\ 68 \\ \hline 3504 \end{array}\ \textit{(error)} \qquad \begin{array}{r} 105 \\ \times\ 34 \\ \hline 3570 \end{array}$$

3,504 + 3,570 = 7,074

Award **ONE** mark for:

- evidence of an appropriate method with more than **ONE** arithmetic error.

OR

- sight of 3,604 as evidence of long multiplication step (68 × 53) completed correctly.

OR

- sight of 3,570 as evidence of long multiplication step (105 × 34) completed correctly.

*Answer need not be obtained for the award of **ONE** mark.*

*A misread of a number may affect the award of marks. No marks are awarded if there is more than **ONE** misread or if the mathematics is simplified.*

***TWO** marks will be awarded if an appropriate method with the misread number is followed through correctly.*

***ONE** mark will be awarded for evidence of an appropriate method with the misread number followed through correctly with no more than **ONE** arithmetic error.*

Up to 3m

[3]

Q2.

Award **TWO** marks for numbers completed, as shown:

$$\begin{array}{r} 53249 \\ +\ \ 7427 \\ \hline 60676 \end{array}$$

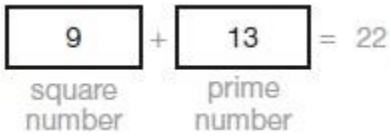
Award **ONE** mark for any two numbers completed correctly.

Up to 2m

[2]

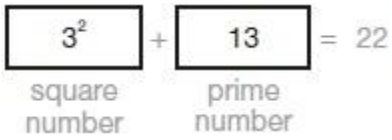
Q3.

Both numbers correct as shown:



Numbers must be in the correct order.

***Do not** accept:*



[1]

Q4.

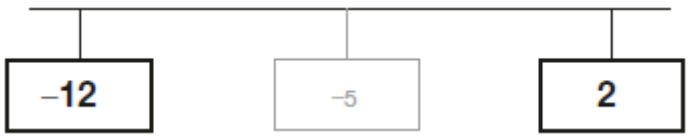
Numbers circled as shown:

Accept alternative unambiguous positive indications, e.g. numbers ticked or underlined.

[1]

Q5.

Award **TWO** marks for both numbers correct as shown.



If the answer is incorrect, award **ONE** mark for one number correct.

***Do not** accept 12−*

Accept +2 in the right-hand box.

Up to 2

[2]

Q6.

0.993

[1]

Q7.

Award **TWO** marks for the correct answer of 55p **OR** £0.55

If the answer is incorrect, award **ONE** mark for evidence of appropriate working, eg

- £2.35 – £1.25 = £1.10

  £1.10 ÷ 2 = wrong answer

  *Accept for **ONE** mark £55 **OR** £55p **OR** 0.55p as evidence of appropriate working.*

  *Working must be carried through to reach an answer for the award of **ONE** mark.*

Up to 2
U1

[2]

Q8.

(a) 109

1

(b) An explanation that recognises that 100 people get up before 9am which is two-thirds of the total (150).

- '13 + 28 + 59 = 100 which is two-thirds of the total'
- '$\frac{1}{3}$ of 150 = 50 and 2 × 50 = 100'
- '$\frac{2}{3}$ of 150 is 100'
- '36 + 14 = 50 which is one-third after 9am'

  ***Do not** accept vague or incomplete explanations, eg:*

  - *'One-third are 9 o'clock or later'*
  - *'100 got up at 9am'*
  - *'Twice as many got up before 9am.'*
  - *'13 + 28 + 59 = 100'*

U1

[2]

Q9.

Award **TWO** marks for the correct answer of £1.68

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g.

- 20 − 14.96 = 5.04
  5.04 ÷ 3

*Accept for **ONE** mark an answer of £168 OR £168p as evidence of an appropriate method.*

*Answer need not be obtained for the award of **ONE** mark.*

Up to 2m

[2]

Q10.

(a) 9

***Do not** accept –9 or 9–*

1

(b) –6

***Do not** accept 6–*

1

[2]

Q11.

Award **TWO** marks for the correct answer of 30p.

If the answer is incorrect, award **ONE** mark for evidence of appropriate working, eg

10p × 2 = 20p

£1 – 20p = 80p

80p ÷ 4 = 20p

20p + 10p = wrong answer

OR

£1 ÷ 2 = 50p

50p – 10p = 40p

40p ÷ 2 = 20p

20p + 10p = wrong answer

*Working must be carried through to reach an answer for the award of **ONE** mark.*

Up to 2 (U1)

[2]

Q12.

(a) –75 in the first box

Do not *accept 75–*

1

(b) –200 in the second box

Do not *accept 200–*

Accept a number 125 less than the answer to (a), provided the answer to 18a is negative.

1

[2]

Q13.

Award **TWO** marks for the correct answer of 23

If the answer is incorrect, award **ONE** mark for evidence of appropriate working, eg

2 × 2 = 4

4 + 5 = 9

9 × 2 = 18

18 + 5 = wrong answer

*Working must be carried through to reach an answer for the award of **ONE** mark.*

Up to 2 (U1)

[2]

Q14.

(a) 7

Accept 7 r 55p.

Do not *accept 7 r 55*

1

(b) Award **TWO** marks for the correct answer of £4.11

If the answer is incorrect, award **ONE** mark for evidence of appropriate method, eg
4 × 3.79 = 15.16
8.95 + 15.16 = 24.11
24.11 – 20

*Accept for **ONE** mark £411 **OR** £411p as evidence of appropriate method.*

*Answer need not be obtained for the award of **ONE** mark.*

Up to 2

[3]

Q15.

Award **TWO** marks for the correct answer of £33.75

If the answer is incorrect, award **ONE** mark for evidence of appropriate method, eg:

- Ben: £15
  Nisha: £15 – £7 = £8
  Emily: £8 + £2.75 = £10.75
  £15 + £8 + £10.75

OR

- 15 + (15 – 7) + (15 – 7 + 2.75)

*Accept for **ONE** mark £3375 **OR** £3375p as evidence of appropriate method.*

*Answer need not be obtained for the award of **ONE** mark.*

Up to 2

[2]

Q16.

7 x 7 – 7 = 42
or
–6 x –6 – –6 = 42
In either case all three numbers must be correct

[