

Challenge 1

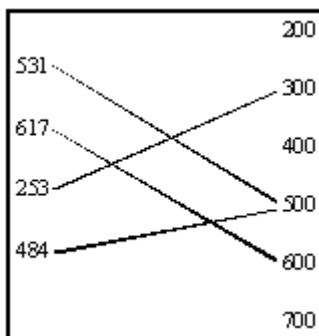
M1. 14
 8
 3

2 marks for all three correct answers.

1 mark for any two correct answers.

[2]

M2. All 4 lines drawn matching these pairs of numbers.



All 4 lines must be correctly matched for the 2 marks to be awarded.

If extra lines are drawn, award no marks unless the child clearly indicates his or her intentions.

2

Any 3 of the 4 lines correct, ie only 1 error.

or 1

Write 1 or 2 for score for question 20.

[2]

M3.



2 marks for all correct or 1 mark for any 2 correct.

[2]

M4.

46 indicated

[1]

M5.

100

[1]

M6.

1060

1049

1100

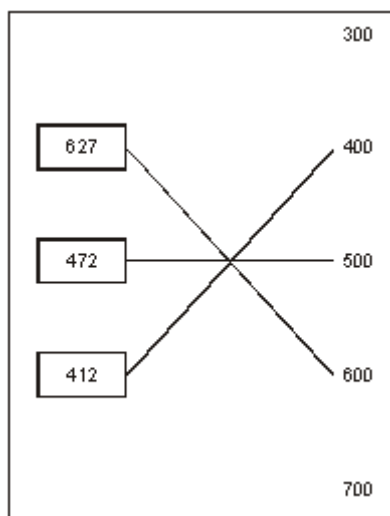
960

899

Accept alternative indications, eg the number crossed or underlined.

[1]

M7. The two numbers matched correctly as shown:



Both lines must be drawn correctly for the award of the mark.

Lines need not touch the boxes or numbers exactly, provided the intention is clear.

Do not accept two or more lines drawn from the same left-hand box.

[1]

M8. Two numbers circled as shown:

84 87 72 76 90

Do not award the mark if additional incorrect numbers are circled.

Accept alternative unambiguous indications, eg ticks, numbers crossed or underlined.

[1]

M9. One number circled as shown:

750 72 651 69 770

Do not award the mark if additional incorrect numbers are circled

Accept alternative unambiguous indications, eg ticks, numbers crossed out or underlined.

[1]

M10. (a) 451

1

(b) 110

1

[2]

M11. One number circled as shown:

261 246 255 209 275

***Do not** award the mark if additional incorrect numbers are circled.*

Accept: alternative unambiguous indications, eg numbers ticked, crossed or underlined.

[1]

M12. (a) £15

1

(b) Award **TWO** marks for the correct answer of £12

If the answer is incorrect, award **ONE** mark for evidence

of appropriate working, eg

$$11.50 + 16.50 = 28$$

$40 - 28 =$ wrong answer

*Accept: for ONE mark £1200 **OR** £1200p as evidence of appropriate working.*

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

Up to 2

[3]

M13. Award **TWO** marks for three numbers correct as shown:

500

240

2

If the answer is incorrect, award **ONE** mark for any two numbers correct.

Up to 2

[2]

M14. 23 **AND** 33

U1

Numbers may be given in either order.

[1]

M15. (a) 2.5 OR $2\frac{1}{2}$

1

(b) 5

1

[2]

M16. Number circled as shown:

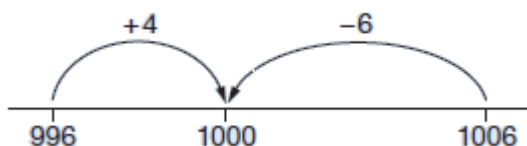
70 120 85 (111) 909

Accept alternative unambiguous indications, eg number ticked, crossed or underlined.

[1]

M17. 996 circled, and an explanation that it is closer in value than 1006 to 1000, eg:

- '996 is 4 less than 1000, but 1006 is 6 more'
- '1000 - 996 = 4, 1006 - 1000 = 6'
- 'It's closer by 2'



- 'Both end in 6 which means to the nearest ten they round up. So 996 rounds up to 1000, but 1006 rounds up to 1010'
- '1006 is nearer 1010, but 996 is nearer 1000'
- '996 is only 4 away'.

No mark is awarded for circling 996 alone.

Do not accept vague or incomplete explanations, eg:

- '1006 is further away'
- '996 is less than 1000, but it is still closer than 1006'

If 996 is not circled, but a correct, unambiguous explanation is given, then award the mark.

U1

[1]

M18.(a) C

Accept alternative unambiguous indications.

1

(b) E

Accept alternative unambiguous indications.

1

[2]

Challenge 2

M1. 1070 → 1100
8225 → 8200
3680 → 3700

All correct for **1 mark**.

[1]

M2. Boxes completed as shown:

6.01	→	6
9.51	→	10
7.75	→	8

Both answers must be correct for the award of the mark.

Do not accept 10.00 **OR** 10.0 **OR** 8.00 **OR** 8.0

[1]

M3. Award **TWO** marks for three numbers correct as shown:

	rounded to the nearest hundred
316	300
3162	3200
31628	31600
316281	316300

If the answer is incorrect, award **ONE** mark for two numbers correct.

Up to 2

[2]

M4. Award **TWO** marks for all values correct as shown:

	Number	Rounded to the nearest whole number
	5.05	5
	5.55	6
	4.45	4
	4.54	5

If the answer is incorrect, award **ONE** mark for three numbers correctly rounded.

Up to 2

[2]

Challenge 3

M1.

0.01

0.05

0.11

0.2

0.9

Accept unambiguous alternatives, eg the number crossed or underlined.

[1]

M2. Award **TWO** marks for all three numbers in order as shown:

129
AND
7492
AND
51

If the answer is incorrect, award **ONE** mark for two out of three numbers correct.

Do not accept 129.0 OR 7492.0 OR 51.0 OR any other equivalent answers with zeroes after the decimal point.

Up to 2

[2]

M3. Gives a correct explanation with a number x such that $50 \leq x$ as an example, eg:

- 53 to the nearest hundred is 100, and to the nearest ten is 50 and $2 \times 50 = 100$
- If it's 50 or more but less than 55 it will round to 100 (nearest hundred) and 50 (nearest ten) and 100 is double 50
- 0 is 0 to the nearest 100 and 0 to the nearest 10 and twice 0 is 0

Accept minimally acceptable explanation, eg:

- 51 rounds to 50 and 100
- $54 \rightarrow 50$ and $54 \rightarrow 100$
- 50 rounds to 100
- 0 rounds to 0

Do not accept incomplete or incorrect explanation, eg:

- They used 51
- $50 \times 2 = 100$
- They could use between 50 and 55, which round to 100

U1

[1]