Mathematics

Mark scheme for Test B

2004
0 min
0 marks

1. One number circled as shown:

    750   72   (651)   69   770   1 m
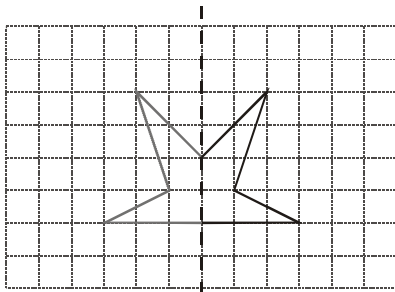
    > *Do not award the mark if additional incorrect numbers are circled*

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

    [1]

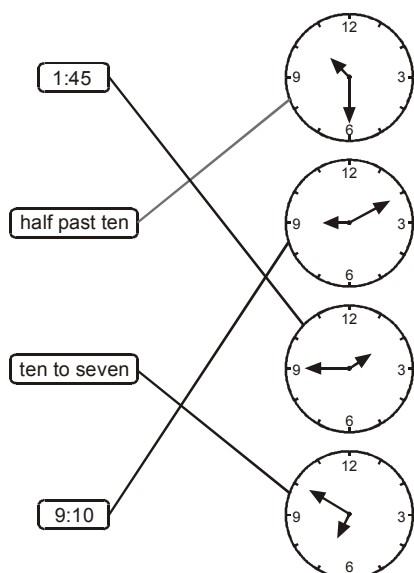2. Diagram completed correctly as shown: 1m

    > *Accept slight inaccuracies in drawing, provided the intention is clear.*

    [1]

3. Diagram completed correctly as shown: 1 m

Lines need not touch the clocks, provided the intention is clear.

***Do not** accept times which have been matched to more than one clock.*

[1]

4. (a) 2 1 m

*Accept 100m **AND** relay.*

(b) Blue 1 m

Accept B or recognisable misspellings.

[2]

5. (a) 8 1 m

(b) 80 1 m

[2]

6. An explanation which recognises that a multiple 1 m
of 5 can end in 0 as well as 5, eg U1

- 'Because 10 is a multiple of 5';

- 'Because it can end in 0;

- 'Because some numbers end in 0'.

No mark is awarded for circling 'No' alone.

***Do not** accept vague or arbitrary answers, eg*

- *'Because not all multiples of 5 end in 5'*

*If 'Yes' is circled but a correct unambiguous explanation is
given, then award the mark.*

[1]

7. Calculation completed correctly as shown: 1 m

$$\boxed{5}\ \boxed{4} \quad \times \quad 2 \quad = \quad \boxed{1}\ \boxed{0}\ \boxed{8}$$

U1

8. A **AND** F 1 m

Answers may be given in either order.

Accept alternative indications, eg shapes ticked or circled, provided the intention is clear.

9. (a) £14.60 1 m

Do not *accept £14.6*

(b) Award **TWO** marks for the correct answer of £4.45 Up to 2 marks

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

1.95 + 1.25 + 1.25

*Accept for **ONE** mark £445 OR £445p as evidence of an appropriate method*

*Accept for **ONE** mark £8.10 **OR** £19.05 **OR** the correct total of £4.45 and the answer given for 9a as evidence of an appropriate method.*

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

[3]

10. (a) 2002 1 m

(b) 2000 1 m

[2]

11. Award **TWO** marks for the correct answer of 384 Up to 2 marks

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

7 + 5 + 4 = 16

16 × 24

OR

7 × 24

5 × 24

+ 4 × 24
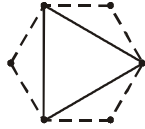
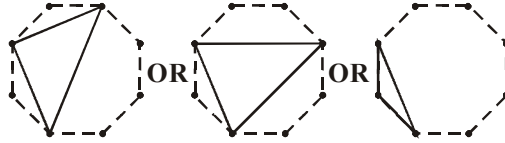*Answer need not be obtained for the award of **ONE** mark.*

[2]

12. (a) Triangle drawn in any orientation as shown: 1 m

> *Accept slight inaccuracies in drawing, provided the intention is clear.*

(b) Triangle drawn in any orientation as shown: 1 m

[2]

13. (a) £200 1 m

(b) Award **TWO** marks for the correct answer of 37p **OR** £0.37 Up to 2 marks

OR

for finding the correct difference between £199.63 and the answer given for 13a

> *Answer to (a) must be a multiple of £10 for the award of **TWO** follow-through marks.*

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

74.68 + 65.90 + 59.05 = 199.63

200 − 199.63

OR

for evidence of an appropriate method to find the correct difference between £199.63 and the answer given for (a).

> *Answer need not be obtained for the award of **ONE** mark.*
>
> *Accept for **ONE** mark £37p **OR** 0.37p **OR** £37 as evidence of appropriate method.*

[3]

14.
| 3 | 2 | × | 4 |

1 m

U1

[1]

15. (a) 4.4 1 m

(b) 1.2 1 m

OR

for finding the correct difference between 5.6 and the answer given for 15a

[2]

16. (a) Answer in the range 46m to 47m inclusive   1 m

     (b) 55   1 m

                                                                           [2]

17. (a) $1\frac{1}{2}$ in the first box   1 m

              Accept equivalent fractions or decimals, eg 1.5

     (b) $2\frac{3}{4}$ in the second box   1 m

              Accept equivalent fractions or decimals, eg 2.75

                                                                            [2]

18. Answer in the range 93 degrees to 97 degrees inclusive   1 m

                                                                             [1]

19. (a) 813.75   1 m

     (b) 58.17   1 m

             Do not *accept –58.17*

                                                                             [2]

20.

A = | **10** | B = | **0** |

OR

A = | **8** | B = | **3** |

OR

A = | **4** | B = | **9** |

OR

A = | **2** | B = | **12** |

OR

A = | **0** | B = | **15** |

Answers must be whole numbers.
Accept negative numbers, eg A = 12 and B = –3
***Do not** accept A = 6 and B = 6*

21.   22

1 m

[1]

U1

22.   Award **TWO** marks for the correct answer of 12

Up to 2 marks

U1

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

7.2 ÷ 3 × 5

*Answer need not be obtained for the award of **ONE** mark.*
*Accept for **ONE** mark 1.2 **OR** 120 as evidence of appropriate method.*

[2]

23. Award **TWO** marks for the correct answer of 2051   Up to 2 marks

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

$(4099 + 3) ÷ 2$

OR

continuation of sequence, eg

259, 515, 1027, wrong number

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

[2]

24. Award **TWO** marks for the correct answer of 2.4   Up to 2 marks

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

$6 × 8 = 48$ (48g fibre in one loaf)

$48 ÷ 20$

OR

$800 ÷ 20 = 40$ (one slice weighs 40g)

6% of 40

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

[2]