St Joseph's Roman Catholic Primary School, Pickering

Mathematics

Mark Scheme for Test A

2004
0 min
0 marks

1.	(a)	115		1 m
	(b)	30		1 m
	(c)	69		1 m

[3]

2. $\frac{1}{4}$ **OR** $\frac{2}{8}$ — 1 m

Accept equivalent fractions.

[1]

3. (a) £2.45 **OR** 245p — 1 m

(b) juice and apple
OR
milk and melon — 1 m

Accept recognisable misspellings.

Accept items written in either order.

Accept numerical substitutes for the required pairing,
ie 65p and 15 p
***OR** 55p and 25p*

[2]

4. Answer in the range 8.4 to 8.6cm inclusive — 1 m

Accept 8 $\frac{1}{2}$ cm

[1]

5. Award **TWO** marks for all three calculations completed correctly as shown: Up to 2 marks

5   ×   **4**

12   ÷   **3**

9   +   **5**

Answers to the calculations are not required for the award of the mark.

If the answer is incorrect, award **ONE** mark for two calculations completed correctly, eg

5   ×   **4**

12   ÷   5

9   +   3

*Accept for **ONE** mark*
*4, 3, (*) **OR***
*4, (*), 5 **OR***
*4, (*), 3 **OR***
(*), 3, 5
where (*) is any number or blank.

[2]

6.   (a)   15   1 m

      (b)   25   1 m

[2]

7. Award **TWO** marks for the correct answers of A **AND** E.   Up to 2 marks

Answers may be given in either order.
Accept unambiguous indications on the diagram.

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

- only one answer correct

OR

- two answers correct and one incorrect.

[2]

8.   10.8   1 m

[1]

9. (a) 5   1 m

               Do not *accept a list of months.*

    (b) Answer in the range of 6 degrees to 7.5 degrees inclusive.   1 m

                                                                                    [1]

10. (a) £2.86   1 m

    (b) Award **TWO** marks for the correct answer of £2.02 **OR** 202p   Up to 2 marks

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

        4.69 + 3.29 = 7.98

        10 – 7.98 = wrong answer

               *Accept for **ONE** mark £202p **OR** £202 **OR** 2.02p as evidence of appropriate working*

               *Calculation must be performed for the award of **ONE** mark*

                                                                  [3]

11. 9:20   1 m

               The answer is a specific time
               (see Applying the mark scheme for guidance)

                                                                    [1]

**12.** Award **TWO** marks for a correct number written in each   Up to 2 marks
    of the four boxes.

	even	not even
a square number	0 **OR** 4 **OR** 16 **OR** 36 **OR** 64	1 **OR** 9 **OR** 25 **OR** 49 **OR** 81
not a square number	even **AND** not a square **AND** less than 100	odd **AND** not square **AND** less than 100

If the answer is incorrect, award **ONE** mark for three boxes completed correctly.

               Accept more than one number in each box, provided all are correct.

                                                                    [2]

13. One net ticked as shown:
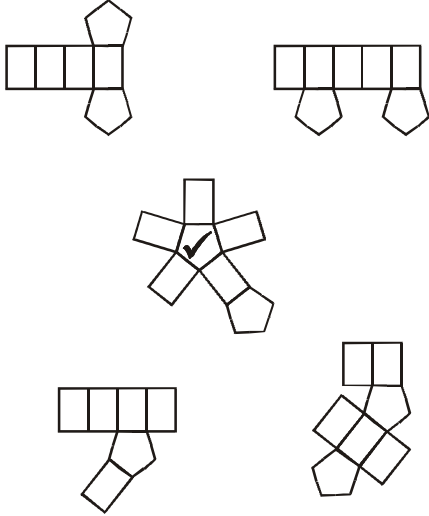
1 m

*Accept alternative unambiguous indications of the correct
shape, provided the intention is clear,
eg net circled*

[1]

14. Award **TWO** marks for all four boxes completed correctly as shown: Up to 2 marks

✗	5	9	8
4	20	36	32
7	35	63	56
6	30	54	48

U1

If the answer is incorrect, award **ONE** mark for the three boxes completed correctly.

[2]

15. 90   1 m

[1]

16. 360   1 m

[1]

17. 221.2   1 m

[1]

18. Award **TWO** marks for the correct answer of 21   Up to 2 marks

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

$5 + 2 = 7$
$15 \div 5 \times 7$

OR

5 new 2 old
10 new 4 old
15 new 6 old

> *Award **ONE** mark for an answer of 6 **OR** for 6 shown with no evidence of an incorrect method.*
>
> *Answer need not be given for the award of **ONE** mark.*

[2]

19. An explanation which recognises that the sum of   1 m
adding three odd numbers is always odd, eg   U1

- 'Because odd + odd + odd = odd';

- 'Because three odd numbers can't add up to an even number';

- 'Because an odd number of odd numbers makes an odd number'.

> ***Do not*** *accept numerical exemplification without further explanation, eg*
> - *'Because 21 + 23 + 7 = 51';*
> - *'Because 21 + 23 + 6 = 50'.*
>
> ***Do not*** *accept vague or arbitrary explanations, eg*
> - *'Because 50 is even';*
> - *'Because you can only do it with two odd numbers*

[1]

20. (5, 2)   1 m

> *Coordinates must be in the correct order.*
> *Accept unambiguous answers written on the diagram.*

[1]

21. 5   1 m

[1]

22. Award **TWO** marks for the correct answer of 15   Up to 2 marks

If the answer is incorrect, award **ONE** mark for   U1
evidence of appropriate working, eg

- 60 ÷ 4 = wrong answer

    *Calculation must be performed for the award of **ONE** mark.*

OR

- a 'trial and improvement' method.
  eg
  30 × 5 – 60 = 90
  10 × 5 – 60 = –10
  20 × 5 – 60 = 40

OR

- 5x – 60 = x

    x = wrong answer

    *A 'trial and improvement' method must show evidence of improvement, but a final answer need not be reached for the award of **ONE** mark.*

                                                                                                [2]

23. (a)   3 hours 35 minutes   1 m

    The answer is a time interval
    (see guidance)

  (b)   15:15   1 m

    The answer is a specific time
    (see guidance)
    Accept quarter past three

                                                                                                [2]

24.   £180   1 m

    ***Do not** accept 180%*

                                                                                                [1]

25.   Award **TWO** marks for the correct answer of 64   Up to 2 marks

If the answer is incorrect, award **ONE** mark for evidence
of appropriate working, eg   U1

48 ÷ 3 = 16

16 ÷ 4 = wrong answer

    *Calculation must be performed for the award of **ONE** mark.*

                                                                                                [2]