

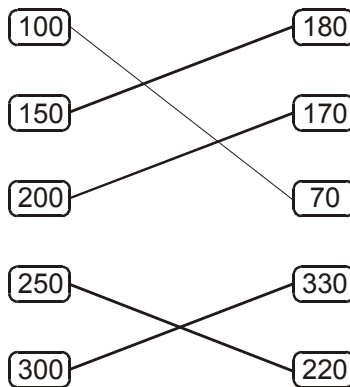
Mathematics Mark scheme

Test A

0 min
0 marks

1. Award **TWO** marks for the four lines drawn as shown:

up to 2



Do not award any marks if two or more incorrect lines are drawn.

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

If the answer is incorrect, award **ONE** mark for three correct lines drawn **AND** not more than one incorrect line drawn.

[2]

2. One of the following triples:

1

11, 12, 17 13, 18, 19

11, 13, 16 14, 17, 19

11, 14, 15 15, 16, 19

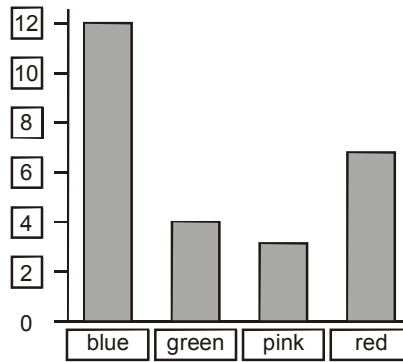
12, 13, 15 15, 17, 18

Accept alternative unambiguous indications, eg ticks, crosses.

Do not award the mark if fewer or more than three numbers are circled.

[1]

3. (a) Vertical axis completed correctly. 1
 (b) Horizontal axis completed correctly. 1



Accept abbreviations or recognizable misspellings.

[2]

4. (a) 30 minutes 1
The answer is a time interval.
 (b) 9:25 am 1
The answer is a specific time.

[2]

5. 14 1

[1]

6. (a) B AND D 1
Both letters must be given.
Letters may be given in either order.
 (b) C AND E 1
Both letters must be given.
Letters may be given in either order.

[2]

7. (a) Award **TWO** marks for the correct answer of £4.10 **OR** 410p up to 2
 If the answer is incorrect, award **ONE** mark for evidence of appropriate working, eg
 $4 \times 60 = 240$
 $2 \times 85 = 170$
 $240 + 170 = \text{wrong answer}$
*Accept for **ONE** mark £410 **OR** £410p as evidence of appropriate working.*
*Calculation must be performed for the award of **ONE** mark.*
 (b) £3.00 1

[3]

8. 1614 1 [1]

9. Award **TWO** marks for all five numbers in any order as shown: up to 2
624, 642, 646, 662, 664 U1

Ignore 626 or repeats of the five correct responses.

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

- four out of five numbers correct and none incorrect

OR

- five numbers correct and only one incorrect.

*For **ONE** mark, ignore four-digit numbers.*

[2]

10. Two cards ticked as shown: 1



Accept alternative unambiguous indications such as circling or a line joining the correct pair of cards.

[1]

11. $\frac{5}{9}$ 1

Accept equivalent fractions.

[1]

12. Award **TWO** marks for signs written in the order shown: up to 2

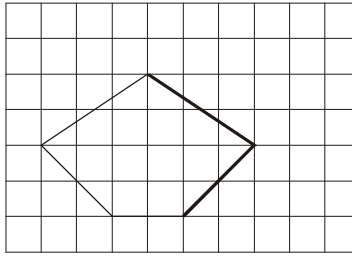


If the answer is incorrect, award **ONE** mark for two out of three signs correct.

[2]

13. Two more lines drawn as shown:

1



Accept slight inaccuracies in drawing.

Do not accept lines drawn outside of the grid.

Ignore line of symmetry if drawn.

[1]

14. An explanation which recognises that the numbers of odd and even cards are not equal, eg

1
U1

- 'Because there are more odds than evens';
- 'Because there are fewer evens than odds';
- 'Because Sapna scores on more than half of the cards';
- 'Because there are only three even numbers';
- 'Because Josh has 3 cards and Sapna has 4 cards';
- 'Because Sapna has more chances'.

No mark is awarded for circling 'No' alone.

Do not accept vague or arbitrary explanations, eg

- 'Because fair means half the time';
- 'Because there are 7 cards';
- 'Because there is an odd number of cards';
- 'Because the game is unfair';
- 'Because Sapna will always win'.

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

[1]

15. (a) Answer in the range 104 to 106 inclusive.

1

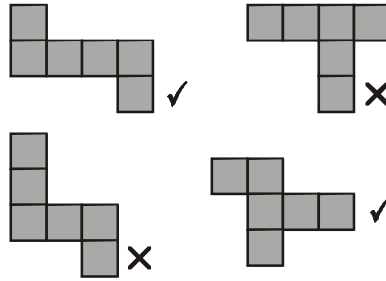
(b) 5

1

[2]

16. Award **TWO** marks for diagrams ticked or crossed as shown:

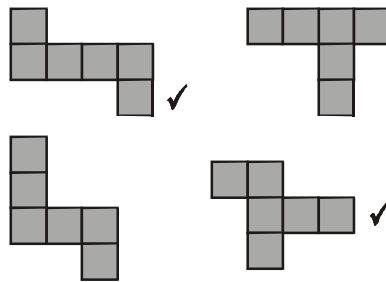
up to 2



If the answer is incorrect, award **ONE** mark for three diagrams ticked or crossed correctly.

Accept alternative unambiguous indications such as Y or N.

*For **TWO** marks accept:*



[2]

17. (a) Answer in the range 126mm to 128mm inclusive.

1

(b) Answer in the range 21 degrees to 23 degrees inclusive.

1

[2]

18. Award **TWO** marks for boxes ticked and crossed as shown:

up to 2



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

Accept alternative unambiguous indications such as Y or N.

*For **TWO** marks, accept:*



[2]

19. 36 AND 9

1

Numbers may be given in either order.

[1]

20. Award **TWO** marks for the correct answer of 5291

up to 2

If the answer is incorrect, award **ONE** mark for evidence of appropriate working which contains no more than **ONE** arithmetical error, eg

- long multiplication algorithm such as

$$\begin{array}{r} 143 \\ \times 37 \\ \hline 1001 \\ 4290 \end{array}$$

wrong answer

- grid method

	100	40	3
30	3000	1200	90
7	700	280	21

= wrong answer

- decomposition methods, eg

$$143 \times 40 = 5720$$

$$143 \times 3 = 429$$

5720 – 429 = wrong answer

*In all cases accept follow through of **ONE** error in working.*

Do not award any marks if:

- the error is in the place value, eg the omission of the zero when multiplying by three tens,

$$\begin{array}{r} 1001 \\ + 429 \\ \hline \end{array}$$

- the final (answer) line of digits is missing.

Variations on algorithms are acceptable, provided they represent viable and complete methods.

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

[2]

21. Award **TWO** marks for boxes ticked and crossed as shown:

up to 2



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

*Accept alternative unambiguous indications such as **Y** or **N**.*

*For **TWO** marks, accept:*



[2]

22.

$\frac{3}{5}$	$\frac{3}{4}$	$\frac{17}{20}$	$\frac{9}{10}$
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1

Fractions must be written in the correct order for the award of the mark.

Accept equivalent fractions or decimals.

[1]

23. Award **TWO** marks for the correct answer as shown:

up to 2

A = B =

U1

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

$140 \div 7 = 20$

Accept 'minus 80'

Do not accept '80-'

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

*Accept for **ONE** mark:*

*A = -80 AND B = wrong answer **OR***

*A = -80 AND B = blank **OR***

*A = 80 AND B = 60 **OR***

*A = 80 AND B = -60 **OR***

A = 60 AND B = -80

[2]

24. Award **TWO** marks for the correct answer of 42

up to 2

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

$18 - 10 = 8$

$10 + (4 \times 8) = \text{wrong answer}$

OR

10, 18, 26, 34, wrong answer

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

[2]