## Mathematics

Reasoning: Set 1 Test B

| Name |  |
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## Maths Reasoning: Set 1 Test B

1. 

a) What number is one hundred more than two hundred and sixteen?

b) What number is ten less than 305 ?

2. Each rectangle represents a fraction. Match 2 of the rectangles on the left to their equivalents on the right.

3. Here are 3 lines. Order the lines from the shortest length to the longest length.

4. Count the number of right angles in each shape.

5.
a) Which digit in the number 726 represents the number of tens?

b) Which digit in the number 509 represents the number of hundreds?

6. Fill in the missing digits to complete this calculation:

7. A group of children take a spelling test. They repeat the test the following week.

Their results are recorded in the following table.

| Name | Test Score 1 | Test Score 2 |
| :--- | :--- | :--- |
| Kasia | 5 | 8 |
| Bailey | 6 | 8 |
| Shanelle | 4 | 7 |
| Aleena | 5 | 6 |
| Conor | 3 | 9 |

a) Who got the highest score in the first test?

b) Who made the biggest improvement from the first to the second test?
8. A box of pencils contains 48 pencils. There are 3 boxes left in the stock cupboard, and 3 boxes in the office.

How many pencils are in the boxes in the stock cupboard and the office altogether?

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१. Here is a clock. What time is showing on the clock?

10. Alex buys a drink and a cake at the school fair.


Alex pays with a $£ 2$ coin. How much change will he receive?

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11.A teacher organises a competition where children have to try to catch five balls that are thrown.

The chart below shows the results.

a) How many more children made 4 catches than 5 catches?

b) How many children made 1 or less catches?

12. Some children buy 2 pizzas. The pizzas are the same size. The cheese and tomato pizza is cut into 6 pieces. The pepperoni pizza is cut into 8 pieces.
Which pieces are larger, the cheese and tomato pizza or the pepperoni pizza?

13. Fill in the missing digits to complete this calculation:

x
8

45

14.A class collects $£ 96$ for charity. They decide to divide the money equally between 4 local charities.

How much would each charity receive?


Answer Sheet: Maths Reasoning: Set 1 Test B

| question | answer | marks | notes |
| :---: | :---: | :---: | :---: |
| 1. 3 N2b: 100 more and 10 less. |  |  |  |
| a | three hundred and sixteen or 316 | 1 |  |
| b | 295 or two hundred and ninety five | 1 |  |
| 2. 3F2: Equivalent fractions diagram. |  |  |  |
|  |  | 1 | 1 mark for each correct. |
| 3. $3 \mathrm{M1}$ : Compare lengths. |  |  |  |
|  | badc | 1 |  |
| 4.3G4b: Right angles. |  |  |  |
|  | $\begin{aligned} & A=4 \\ & B=2 \end{aligned}$ | 2 | 1 mark for each correct. |
| 5. 3N3: Place value to hundred. |  |  |  |
| a | 2 | 1 |  |
| b | 5 | 1 |  |
| 6. 3C2: Missing number add. |  |  |  |
| a | $\begin{aligned} & 382 \\ & +56 \end{aligned}$ | 2 | 1 mark for each. |
| 7.3S1: Table. |  |  |  |
| a | Bailey | 1 |  |
| b | Conor | 1 |  |
| 8. 3C7: Problem $x$. |  |  |  |
| a | 288 pencils | 2 | 2 marks for correct answer 1 mark for an incorrect answer using a correct method with only 1 mistake in calculation. |


| question | answer | marks | notes |
| :--- | :---: | :---: | :---: |

9. 3 M 4 C : Analogue roman.

|  | $10: 20$ | 1 | allow 22:20. |
| :--- | :--- | :--- | :--- |

10. 3M9a: Change.

|  |  |  | 2 marks for correct answer <br> 1 mark for correctly working out the cost <br> is $£ 1.35$ but not working out the change <br> correctly or for incorrectly calculating the <br> cost but correctly working out the change <br> from the incorrect cost. |
| :--- | :--- | :---: | :--- |
| 65p or $£ 0.65$ |  |  |  |
| 11. 3S2: Scaled bar chart. | 6 | 1 |  |
| a | 6 | 1 |  |
| b | 7 |  |  |

12. 3F10: Fraction problem.

|  | cheese and tomato | 2 |  |
| :--- | :---: | :---: | :---: |
|  |  |  |  |
| 13. 3C8: Missing number $x$. | 2 | 1 mark for each. |  |
|  | 57 <br> $\times 8$ |  |  |
| 14.3C7: Divide Problem. | 2 | 2 marks for correct answer <br> 1 mark for incorrect answer but attempt <br> to divide 96 by 4. |  |
|  | $£ 24$ | Total <br> 26 |  |

