## Spring Term Assessment

## Year 7

## Mathematics

## Higher: No calculator allowed

Time allowed: 45 minutes

| First name |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Middle name |  |  |  |  |  |
| Last name |  |  |  |  |  |
| Date of birth | Day |  | Month |  | Year |
| Teacher |  |  |  |  |  |

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White


The two numbers below add to make the number above.
Complete the addition pyramid.


On Tuesday Nina cycles 15 more miles than she did on Monday. In total over the two days she cycles 79 miles.

How many miles does she cycle on Monday?


Here are two calculation cards.


## $\sqrt{25} \times 2$

B

Which card has the greater value?
Show your working.


2 marks

A packet of stickers costs 39p.
Todd wants to buy a packet of stickers for each of his 28 classmates.
Todd only has £10
How much more money does he need?
$\overline{3 \text { marks }}$ number above.

Fill in the missing numbers.



## $a+b+c$

$$
a=-2 \text { and } b=-3
$$

Work out the value of $c$ so that the two cards are equal.

The chart shows the distances in miles between some UK towns and cities.

## Aberdeen

| 513 | Bristol |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 473 | 171 | Cambridge |  |  |
| 595 | 206 | 124 | Dover |  |
| 587 | 83 | 250 | 244 |  |

## Exeter

Tony travels from Aberdeen to Cambridge and then from
Cambridge to Exeter.
How much shorter would Tony's journey have been if he had travelled directly from Aberdeen to Exeter?

## $6.3+a=14.1$

$\square$
1 mark

## $8 b=29.6$

$b=$

1 mark
$\frac{c}{3}+3.5=2$

```
\(c=\)
```

2 marks


The two expressions below add to make the expression above.
Complete the part-whole diagram.


Noah is carrying out a survey.
He asked each member of his class this question,

## "How many school dinners did you have last week?"

The bar chart shows his results.


How many school dinners did Noah's class eat altogether?


$$
640 \div A=C
$$

$$
A \times 0.5=B
$$

$$
\sqrt{B}=4
$$

Work out the value of C .



Work out the area of the trapezium.


13 Work out

$$
3 \times 10^{6}-2 \times 10^{5}
$$




The mean of the lengths on the three cards is 2.7 m .
Work out the missing length.


2 marks

$$
\frac{2}{3}+\frac{3}{5}=
$$

Give your answer as a mixed number.


2 marks
Here are three identical rectangles.
Part of each rectangle has been shaded.


What fraction of the middle rectangle is shaded?


2 marks

$$
\frac{1}{8}+2.6
$$



1 mark
$5 \frac{1}{3}-2 \frac{3}{5}$


Simplify

$$
\frac{p}{5}+\frac{p}{5}+\frac{p}{10}
$$



## END OF TEST

Page 15 of 16

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