## Year 5 Autumn I•Problem solving and reasoning

Name: $\qquad$

Date: $\qquad$


For teacher use

| Your mark | out of 30 |
| :--- | :--- |
| What went well |  |
|  |  |
| How to improve |  |

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I Write in what the two missing numbers could be.
$10278<\square<10287<\square 10782$

2 Write the five numbers in order, from largest to smallest.


3 Which of these are correct? Put a tick $(\mathcal{J})$ or cross $(X)$ in the box next to each calculation.
a) $1672+120=1792$

b) $2437+520=\mathbf{2 9 3 9}$

c) $\mathbf{3 9 5 7 - 2 0 3 0}=\mathbf{1 6 2 7}$ $\square$
d) $6781-340=6441$ $\square$

4 Peter has saved $£ \mathbf{£ 0}$. His grandmother gives him $£ 50$ for his birthday, and he then spends $£ 80$ on some new computer games. How much does he have left?

| Show <br> your <br> method |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

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5 George says that he added 48 to 375 in his head.
Explain here how he might have done this and write the answer.
$\qquad$
$\qquad$
$\qquad$


6 a) How many more than 176 is 220 ? $\square$
b) What number is $\mathbf{I} 60$ less than 583? $\square$

7 Match the value of the digit 7 in each of these numbers to the correct place value. The first one is done for you.

c) $\mathbf{0 . 7 8 9}$
hundreds
d) $70 \cdot 9$
e) $726 \cdot 3$
tenths

8 a) What is added to $45 \cdot 673$ to make $45 \cdot 693$ ?

b) What is subtracted from $7 \cdot 86$ to make $7 \cdot 76$ ?


9 Show how to use doubling and halving to work out the answers.
a)

$25 \times 12=\square$
b)

$32 \times 50=$ $\square$
(10) Here is a bus timetable.

| Destination | Departs <br> (24 hour clock) | Departs <br> (am/pm time) | Arrives <br> (am/pm time) |
| :--- | :---: | :---: | :---: |
| Cardiff | $07: 15$ | $\square$ | $10: 20 \mathrm{am}$ |
| Manchester |  |  | $6: 50 \mathrm{pm}$ |
| Edinburgh | $13: 30$ | $\square \mathrm{am}$ |  |

a) Complete the missing departure times in the table.
b) How long does the journey take to Cardiff? $\square$
c) Robbie takes the bus to Manchester and Lucy the bus to Edinburgh.
How many hours before Robbie arrives in Manchester does Lucy arrive in Edinburgh?


II Write in the missing numbers.
a) $\frac{1}{2} \mathrm{~km}=\square \mathrm{m}$
b) $\frac{1}{10} \mathrm{~m}=\square \mathrm{cm}$

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12 a) Measure this line to the nearest mm .

b) In the space below, draw a line that is exactly 105 mm long.
$\square$

13 What is the perimeter of this rectangle?



## Year 5 Autumn I• Problem solving and reasoning

14 Jane has a $£ 20$ note. She spends $£ \mathbf{2} \cdot 60$ on a ticket to the cinema.
a) How much change does she get? $\square$
b) She then buys a drink for $£ 1 \cdot 45$.

## How much does she have left?



You can use the space below for workings.
$\square$
(15 712-555 =?
Circle the correct answer.

Explain how you can work this out in your head.

