Year 5 Autumn 1 • Problem solving and reasoning

Name: _____

Date: _____

Write your full name and the date.

For teacher use

Your mark	_____ out of 30
What went well	
How to improve	

1 Write in what the **two missing** numbers could be.

| 10 278 | < | | < | 10 287 | < | | < | 10 782 |

2

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

965 908   96 590   956 908   965 809   96 950

| | | | | |

largest   **smallest**

2

3 Which of these are **correct**?
Put a **tick** (✓) or **cross** (✗) in the box next to each calculation.

a) 1672 + 120 = 1792   ☐

b) 2437 + 520 = 2939   ☐

c) 3957 − 2030 = 1627   ☐

d) 6781 − 340 = 6441   ☐

2

4 Peter has saved **£190**. 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 your method											

2

1

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

_____

_____

_____

_____

2

6 a) How many **more** than **176** is **220**?

b) What number is **160 less** than **583**?

2

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.

a) **27·06**   **tens**

b) **34·073**   **ones**

c) **0·789**   **hundreds**

d) **70·9**   **hundredths**

e) **726·3**   **tenths**

2

8 a) What is **added** to **45·673** to make **45·693**?

b) What is **subtracted** from **7·86** to make **7·76**?

2

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

a)   **25**   ×   **12**

double   half

[   ] × [   ]

25 × 12 = [   ]

b)   **32**   ×   **50**

half   double

[   ] × [   ]

32 × 50 = [   ]

10 Here is a bus timetable.

Destination	Departs (24 hour clock)	Departs (am/pm time)	Arrives (am/pm time)
Cardiff	07:15	[ ]	10:20 am
Manchester	[ ]	6:50 pm	12:10 am
Edinburgh	13:30	[ ]	10:10 pm

a) Complete the missing **departure** times in the table.

b) How **long** does the journey take to **Cardiff**?   [   ]

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?   [   ] hrs

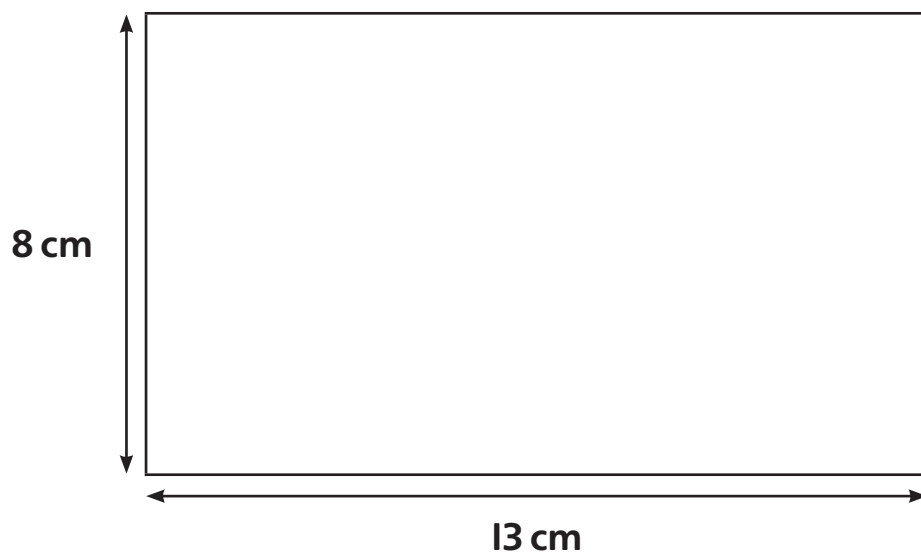**11** Write in the **missing** numbers.

a) $\frac{1}{2}$ km = [   ] m

b) $\frac{1}{10}$ m = [   ] cm

12 a) **Measure** this line to the nearest **mm**.

_____ [ ] mm

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

13 What is the **perimeter** of this rectangle?

8 cm

13 cm

Show your method															
												cm			

14 Jane has a **£20** note. She spends **£12·60** on a ticket to the cinema.

a) How much **change** does she get?

b) She then buys a drink for **£1·45.**
How much does she **have left**?

You can use the space below for workings.

15 **712 − 555** = ?

Circle the correct answer.

167 **157** **57**

Explain how you can work this out in your head.

5

2

2