18 A **square** number and a **prime** number have a total of 22

What are the two numbers?

square number		prime number	= 22
9	+	13	

1 mark

square number | prime number

1 + 21
4 + 18
9 + 13
16 + 6

~~25~~

19 Dev thinks of a **whole** number.

He multiplies it by 4

He rounds his answer to the nearest 10

The result is 50

Write **all** the possible numbers that Dev could have started with.

12 and 13

2 marks

45 ——— 54

48 = 12 × 4

52 = 13 × 4

19 Write the missing number to make this **division** correct.

$$15{,}000 \div \boxed{200} = 75$$

1 mark

75
150

2 × 75 = 150

200 75 = 15000

20 Write the two missing digits to make this **long multiplication** correct.

		3	2	3	5
×				5	3
		9	7	0	5
1	6	1	7	2	5	0
1	7	1	4	5	5

2 marks

← Do this first

Can't be 1 or any even number because of the 5 in the tens place so try each odd number in turn.

13 Write the missing number to make this calculation correct.

$754 \times 6 + 754 \times 3 = 754 \times$ [9]

1 mark

14 Here are five digit cards.

1	2	3	4	5

Use two cards to make a fraction **equivalent to 25%**

$\frac{1}{4}$

1 mark

Use two cards to make a fraction **equivalent to 0.4**

$\frac{4}{10} = \frac{2}{5}$

$\frac{2}{5}$

1 mark

10 Write the missing square number to make this addition correct.

$8^2 + \underline{\quad 3 \quad}^2 = 73$

1 mark

64

73 − 64 = 9

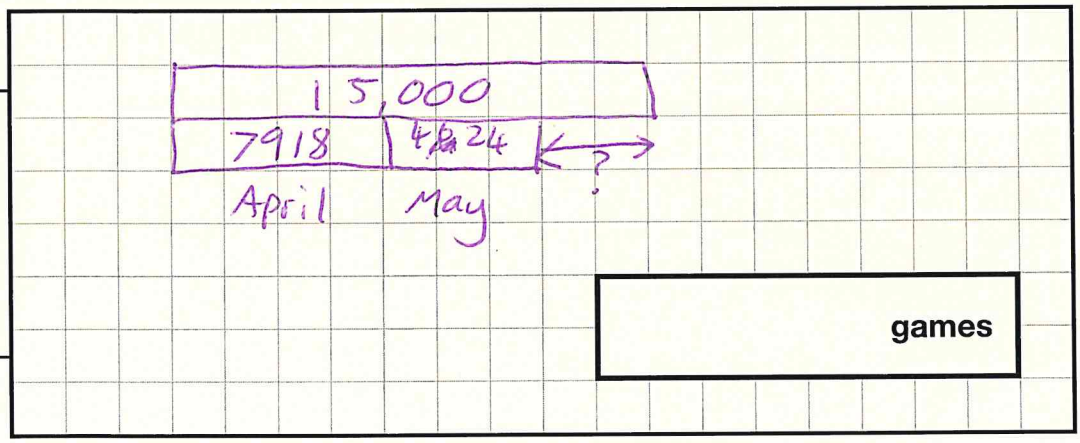
11 At the start of April, a shop had **15,000** games.

The shop sold:

- **7,918** games in April
- **4,624** games in May.

How many games did the shop have left at the end of May?

Show your method



games

2 marks

4 Write the next **two** numbers in this sequence.

1,780 1,880 1,980 ☐ ☐

1 mark

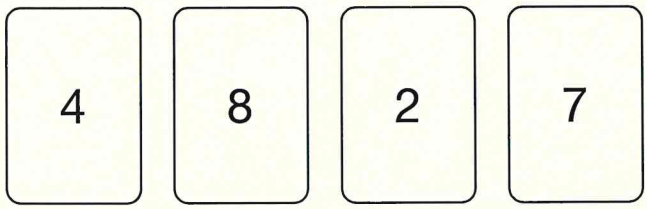
5 Circle the two decimals that round to the **same** whole number.

13.2 14.7 15.9 16.3 17.6

13 15 16 16 18

1 mark

1 Chen has these digit cards.

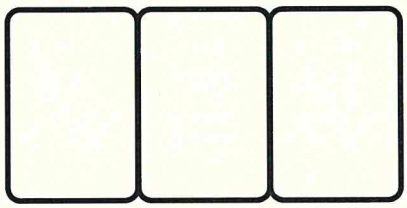


She uses three of the cards to make a **three-digit** number.

Each card can be used only **once**.

Chen puts the **4** in the **tens** place.

Write the **lowest** three-digit number that Chen could make.



1 mark

2 Tick the number **eighty thousand, three hundred and six.**

Tick **one**.

8,306 ☐

80,036 ☐

80,306 ☐

800,306 ☐

80,300,006 ☐

1 mark

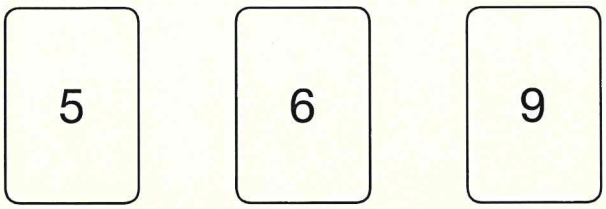
5 Complete this table with the missing numbers.

One row has been done for you.

Number	1,000 more
3,500	4,500
85	
	9,099
	15,250

2 marks

3 Chen uses these digit cards.

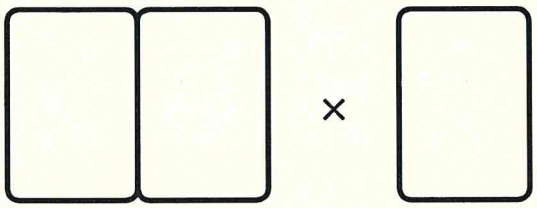


She makes a 2-digit number and a 1-digit number.

She multiplies them together.

Her answer is a **multiple of 10**

What could Chen's multiplication be?



1 mark

8 Write three factors of 30 that are **not** factors of 15

2 marks

Factors of 30

1 30
2 15
3 10
5 6

Factors of 15

1 15
3 5

9 Here is the morning timetable for Chen's class this week.

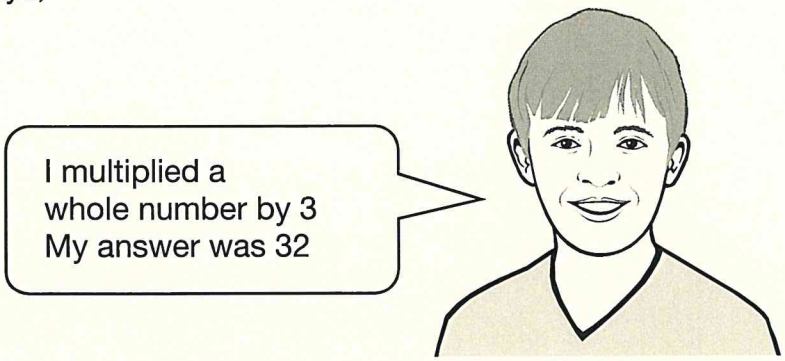
Time	Mon	Tue	Wed	Thu	Fri
9:00 am–10:30 am	Maths	English	Maths	English	Maths
10:30 am–11:00 am	Break	Break	Break	Break	Break
11:00 am–12:00 pm	English	Maths	Science	Maths	English

What is the **total** number of hours for **English** on this timetable?

hours

1 mark

9 Jack says,



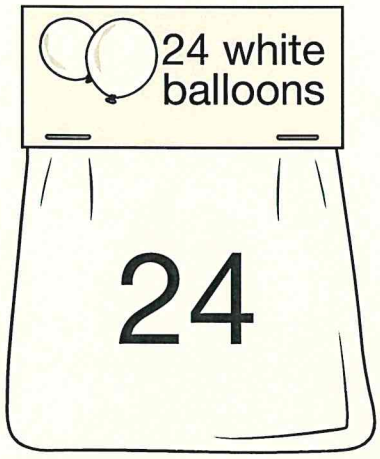
Explain why Jack is **not** correct.

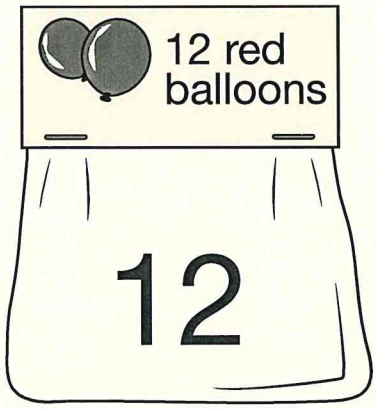
$3 \times 10 = 30$ and $3 \times 11 = 33$

so 32 is not a multiple of 3.

1 mark

12





Adam buys **6** bags of white balloons.

Chen buys **3** bags of red balloons.

Adam says,

'I have four times as many balloons as Chen.'

Explain why Adam is correct.

Adam: $6 \times 24 = 144$

Chen: $3 \times 12 = 36$

$36 \times 4 = 144$ so Adam is correct.

$$\begin{array}{r} 36 \\ \times \quad 4 \\ \hline 144 \\ {\scriptstyle 2} \end{array}$$

1 mark