

# Year 4 Maths

22.06.20

LO: To understand place value 1s, 10s, 100s and 1,000s.

<https://vimeo.com/425562383>

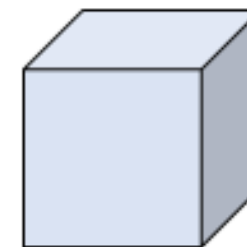
Please follow the Vimeo link as we are following the alternative learning referred to on the White Rose page. There is no BBC video this week but this work is all revision so if you can't see the video think back carefully on your earlier learning.

# Starter

## Flashback 4

Year 4 | Week 3 | Day 1

1) Write  $\frac{1}{4}$  as a decimal.



2) Round 3.4 to the nearest whole number.

3) Divide 52 by 100

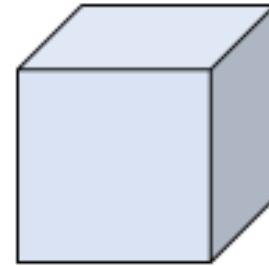
4) Plane A travels 3,482 kilometres.

Plane B travels 5,391 kilometres.

How far do Plane A and B travel altogether?



1) Write  $\frac{1}{4}$  as a decimal. **0.25**



2) Round 3.4 to the nearest whole number. **3**

3) Divide 52 by 100 **0.52**

4) Plane A travels 3,482 kilometres.  
Plane B travels 5,391 kilometres.



How far do Plane A and B travel altogether?

**7,793**



1 Dora makes a number on a place value chart.

Th	H	T	O

- a) What number has Dora made?
- b) Add 3 ones to Dora's number.  
What number do you have?
- c) Add 2 tens to Dora's number.  
What number do you have now?
- d) Subtract 2 hundreds from Dora's number.  
What number do you have now?
- e) Add 5 thousands to Dora's number.  
What number do you have now?

2 Complete the calculations.

Use the place value chart to help you.

1,000s	100s	10s	1s
5	3	7	8

- a)  $5,378 + 200 =$        e)  $5,378 - 60 =$
- b)  $5,378 + 20 =$        f)  $5,378 - 3,000 =$
- c)  $5,378 + 2,000 =$        g)  $300 + 5,378 =$
- d)  $5,378 - 6 =$        h)  $5,378 - 300 =$

3 Complete the calculations.

- a)  $6,058 + 1 =$        b)  $6,058 + 20 =$
- $6,058 + 2 =$         $6,058 + 30 =$
- $6,058 + 3 =$         $6,058 + 40 =$
- $6,058 + 4 =$         $6,058 + 50 =$
- $5 + 6,058 =$         $60 + 6,058 =$

4 Mo is going to add 100 to each number.

Circle the numbers where the 1,000s will change.

2,450      3,928      4,180      5,905      972

What do you notice?

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# MAIN TASK SHEET



# EXTENSION SHEET

5 Mr Hall has £1,342 in the bank.



a) Mr Hall puts in £500 more.

How much money does he have in the bank now?

b) Then he puts in £600 more.

How much money does Mr Hall have in the bank now?

c) Then Mr Hall takes out £60

How much money does he have in the bank now?

6 Is Eva correct?



If I keep taking ten away from the number 2,562 only the tens will change.



7 Write the missing numbers.

a)  $6,951 - \square = 6,921$     c)  $1,706 + \square = 1,766$

$6,951 - \square = 6,881$      $1,706 - \square = 906$

b)  $6,421 - 700 = \square$     d)  $3,500 - \square = 2,700$

$6,421 + 700 = \square$      $3,500 - \square = 3,430$

Which calculations were easy to work out?

Which were more difficult to work out?

8



To add 3,812 and 1,400 together, you can add 1,000 to 3,812 and then add 400

a) Use Ron's method to work out  $3,812 + 1,400$

Could you have worked this out mentally?





b) Use Ron's method to complete the calculations.

$1,780 + 2,200 = \square$

$3,084 + 720 = \square$

$591 + 2,820 = \square$

1 Dora makes a number on a place value chart.

Th	H	T	O
			

- a) What number has Dora made? 3,425
- b) Add 3 ones to Dora's number.  
What number do you have? 3,428
- c) Add 2 tens to Dora's number.  
What number do you have now? 3,445
- d) Subtract 2 hundreds from Dora's number.  
What number do you have now? 3,225
- e) Add 5 thousands to Dora's number.  
What number do you have now? 8,425

2 Complete the calculations.

Use the place value chart to help you.

1,000s	100s	10s	1s
5	3	7	8

- a)  $5,378 + 200 = 5,578$     e)  $5,378 - 60 = 5,318$
- b)  $5,378 + 20 = 5,398$     f)  $5,378 - 3,000 = 2,378$
- c)  $5,378 + 2,000 = 7,378$     g)  $300 + 5,378 = 5,678$
- d)  $5,378 - 6 = 5,372$     h)  $5,378 - 300 = 5,078$

3 Complete the calculations.

- a)  $6,058 + 1 = 6,059$     b)  $6,058 + 20 = 6,078$
- $6,058 + 2 = 6,060$      $6,058 + 30 = 6,088$
- $6,058 + 3 = 6,061$      $6,058 + 40 = 6,098$
- $6,058 + 4 = 6,062$      $6,058 + 50 = 6,108$
- $5 + 6,058 = 6,063$      $60 + 6,058 = 6,118$

4 Mo is going to add 100 to each number.

Circle the numbers where the 1,000s will change.

2,450    3,928    4,180    5,905    972

What do you notice?

The 1,000s change when there is a 9 in the hundreds column.

5 Mr Hall has £1,342 in the bank.

a) Mr Hall puts in £500 more.

How much money does he have in the bank now?



£1,842

b) Then he puts in £600 more.

How much money does Mr Hall have in the bank now?

£2,442

c) Then Mr Hall takes out £60

How much money does he have in the bank now?

£2,382

6 Is Eva correct?



If I keep taking ten away from the number 2,562 only the tens will change.

7 Write the missing numbers.

- a)  $6,951 - 30 = 6,921$     c)  $1,706 + 60 = 1,766$
- $6,951 - 70 = 6,881$      $1,706 - 800 = 906$
- b)  $6,421 - 700 = 5,721$     d)  $3,500 - 800 = 2,700$
- $6,421 + 700 = 7,121$      $3,500 - 70 = 3,430$

Which calculations were easy to work out?  
Which were more difficult to work out?

8



To add 3,812 and 1,400 together, you can add 1,000 to 3,812 and then add 400

a) Use Ron's method to work out  $3,812 + 1,400$

5,212

Could you have worked this out mentally?

b) Use Ron's method to complete the calculations.

$1,780 + 2,200 = 3,980$

$3,084 + 720 = 3,804$

$591 + 2,820 = 3,411$

# Year 4 Maths

23.06.20

LO: To be able to add two 4 digit numbers with no exchange

<https://vimeo.com/425562628>

Please follow the Vimeo link as we are following the alternative learning referred to on the White Rose page. There is no BBC video this week but this work is all revision so if you can't see the video think back carefully on your earlier learning.

# Starter

## Flashback 4

Year 4 | Week 3 | Day 2

1) Complete the sentences.



There are \_\_\_ pounds.

There are \_\_\_ pence.

2) Write  $\frac{3}{4}$  as a decimal.

3) How many tenths are equivalent to  $\frac{30}{100}$ ?

4) Round 754 to the nearest 100

1) Complete the sentences.



There are 3 pounds.

There are 52 pence.

2) Write  $\frac{3}{4}$  as a decimal. **0.75**

3) How many tenths are equivalent to  $\frac{30}{100}$ ? **3 tenths**

4) Round 754 to the nearest 100 **800**

## Add two 4-digit numbers – no exchange

1 Calculate  $314 + 522$

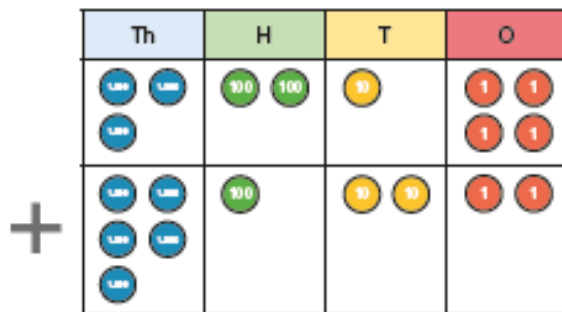
Use the place value chart to help you.



$314 + 522 =$

2 a) Calculate  $3,214 + 5,122$

Use the place value chart to help you.



$3,214 + 5,122 =$



b) Now calculate  $3,214 + 122$  in the same way.

$3,214 + 122 =$

c) What do you notice about your answers to part a) and part b)?

3 Complete the calculations.

a)  $4,122 + 2,605 =$

b)  $3,709 + 4,160 =$

c)  $247 + 1,032 =$

d)  $3,007 + 560 =$

4 Alex is calculating  $5,702 + 125$

	Th	H	T	O
	5	7	0	2
+	1	2	5	
	6	9	5	2

Do you agree with Alex? \_\_\_\_\_

Explain your answer.

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Complete the calculation.

$5,702 + 125 =$

# MAIN TASK SHEET





# Year 4 Maths

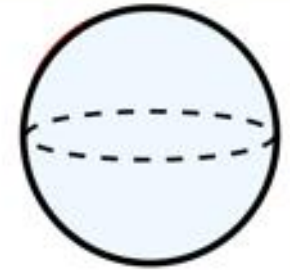
24.06.20

LO: To add two 4 digit numbers with one exchange.

<https://vimeo.com/425562776>

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1) How much money is there altogether?



2) Round 7.7 to the nearest whole number.

3) What decimal is represented on the grid?

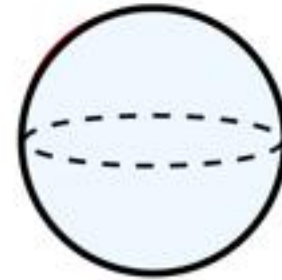
Ones	Tenths	Hundredths
● ● ●		● ● ● ●

4) Divide 549 by 3

1) How much money is there altogether?



£ 2.45



2) Round 7.7 to the nearest whole number. 8

3) What decimal is represented on the grid?

Ones	Tenths	Hundredths
● ● ●		● ● ● ●

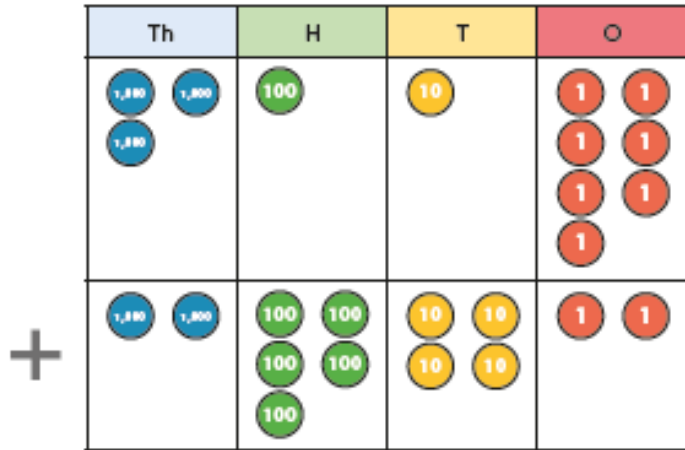
3.04

4) Divide 549 by 3 183

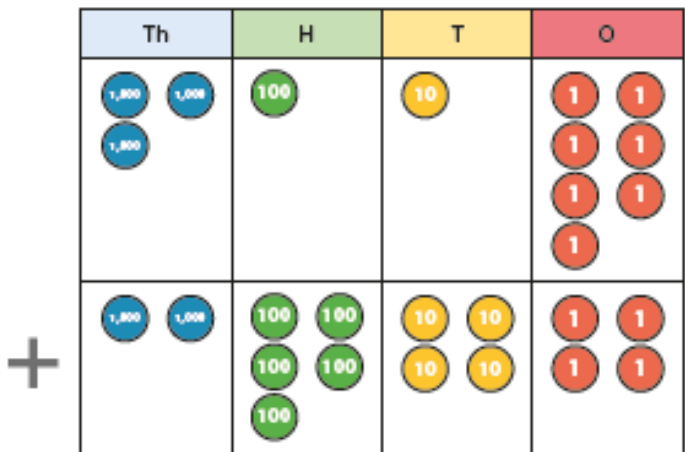
# Add two 4-digit numbers – one exchange

1 Complete the calculations.  
Use the place value charts to help you.

a)  $3,117 + 2,542 = \square$



b)  $3,117 + 2,544 = \square$



c) What do you notice about the calculations in part a) and part b)?

Which did you find easier and why?

d) What happens when you have more than 10 counters in one column?

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2 Complete the calculations.

a)  $4,365 + 2,617 = \square$

b)  $1,907 + 5,068 = \square$

c)  $6,792 + 163 = \square$

d)  $3,247 + 1,930 = \square$

3 Complete the calculations.

a)

	Th	H	T	O
	5	1	6	3
+	2	4	5	1

b)

	Th	H	T	O
	7	2	6	1
+	1	0	2	9

# MAIN TASK SHEET

# EXTENSION SHEET

c)

	Th	H	T	O
		7	0	3
+	2	5	8	0
<hr/>				

d)

	Th	H	T	O
		3	5	0
+	2	7	3	1
<hr/>				

5

Mr Robson has £2,100 to spend on a mobile phone and a laptop.

Which combinations of laptops and phones can he afford to buy?

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4 Four children have calculated  $4,635 + 183$

Rosie's method

	Th	H	T	O
	4	6	3	5
+		1	8	3
<hr/>				
	4	7	11	8

$$4,635 + 183 = 47,118$$

Jack's method

	Th	H	T	O
	4	6	3	5
+		1	8	3
<hr/>				
	4	7	1	8

$$4,635 + 183 = 4,718$$

Alex's method

	Th	H	T	O
	4	6	3	5
+		1	8	3
<hr/>				
	4	8	1	8
			1	

$$4,635 + 183 = 4,818$$

Teddy's method

	Th	H	T	O
	4	6	3	5
+	1	8	3	
<hr/>				
	6	4	6	5
			1	

$$4,635 + 183 = 6,465$$

Whose method is correct? \_\_\_\_\_

Talk about the mistakes the other children have made.



6 Fill in the missing digits.

a)

	Th	H	T	O
	3		2	
+		4		6
<hr/>				
	8	7	9	1

b)

	Th	H	T	O
+	3	8	2	1
<hr/>				
	8	7	9	1

## Add two 4-digit numbers – one exchange

Rose Maths

1 Complete the calculations.  
Use the place value charts to help you.

a)  $3,117 + 2,542 =$  5,659

Th	H	T	O
3 1,000 1,000	1 100	1 10	7 1 1 1 1
2 1,000 1,000	5 100 100 100	4 10 10	2 1 1

b)  $3,117 + 2,544 =$  5,661

Th	H	T	O
3 1,000 1,000	1 100	1 10	7 1 1 1 1
2 1,000 1,000	5 100 100 100	4 10 10	4 1 1

c) What do you notice about the calculations in part a) and part b)?  
Which did you find easier and why?

d) What happens when you have more than 10 counters in one column?  
You have to make an exchange

2 Complete the calculations.

a)  $4,365 + 2,617 =$  6,982

b)  $1,907 + 5,068 =$  6,975

c)  $6,792 + 163 =$  6,955

d)  $3,247 + 1,930 =$  5,177

3 Complete the calculations.

a)

Th	H	T	O
5	1	6	3
+	2	4	5
7	6	1	4

b)

Th	H	T	O
7	2	6	1
+	1	0	2
8	2	9	0

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c)

Th	H	T	O
	7	0	3
+	2	5	8
3	2	8	3

d)

Th	H	T	O
3	5	0	8
+	2	7	3
6	2	3	9

4 Four children have calculated  $4,635 + 183$

Rosie's method

Th	H	T	O
4	6	3	5
+	1	8	3
4	7	11	8

$4,635 + 183 = 47,118$

Jack's method

Th	H	T	O
4	6	3	5
+	1	8	3
4	7	1	8

$4,635 + 183 = 4,718$

Alex's method

Th	H	T	O
4	6	3	5
+	1	8	3
4	8	1	8

$4,635 + 183 = 4,818$

Teddy's method

Th	H	T	O
4	6	3	5
+	1	8	3
6	4	6	5

$4,635 + 183 = 6,465$

Whose method is correct? Alex

Talk about the mistakes the other children have made.

5



Mr Robson has £2,100 to spend on a mobile phone and a laptop.

Which combinations of laptops and phones can he afford to buy?

Mr Robson can buy Laptop A and phone A, Laptop A and phone B or Laptop B and phone B.

6

Fill in the missing digits.

a)

Th	H	T	O
3	3	2	5
+	5	4	6
8	7	9	1

b)

Th	H	T	O
4	9	7	0
+	3	8	2
8	7	9	1

# Year 4 Maths

25.06.20

LO: To be able to add 4 digit numbers with more than 1 exchange

<https://vimeo.com/425563010>

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# Starter

## Flashback 4

Year 4 | Week 3 | Day 4

1) Convert 843 p to pounds and pence.

$$843 \text{ p} = \text{£} \underline{\quad}.$$



2) Write  $\frac{1}{2}$  as a decimal.

3) Complete the equation.

$$\underline{\quad} + 0.3 = 1$$

4) Find the difference between 459 and 3,720



1) Convert 843 p to pounds and pence.

$$843 \text{ p} = \underline{\text{£ } 8.43}$$

2) Write  $\frac{1}{2}$  as a decimal. 0.5

3) Complete the equation.

$$\underline{0.7} + 0.3 = 1$$

4) Find the difference between 459 and 3,720 3,261

# Add two 4-digit numbers – more than one exchange

1 Complete the calculation.

Th	H	T	O
1,000 1,000	100	10 10 10 10 10 10 10	1 1 1 1 1 1
+			
1,000 1,000 1,000	100 100 100 100	10 10 10 10 10	1 1 1 1 1 1 1 1

	Th	H	T	O
	2	1	7	6
+	3	4	5	8

2 Who has got each question correct? Tick your answer.

a) Nijah

	H	T	O
	4	4	5
+	3	4	8
	78	1	3

Scott

	H	T	O
	4	4	5
+	3	4	8
	7	9	3
		1	

b) Nijah

	Th	H	T	O
	4	8	2	6
+	1	7	8	
	6	6	0	6
	1	1		

Scott

	Th	H	T	O
	4	8	2	6
+		1	7	8
	5	0	0	4
	1	1	1	

What mistake has the other person made in each calculation?

Talk about it with a partner.

3 Complete the additions.

a)

	Th	H	T	O
	4	7	1	2
+	3	4	9	2

c)  $3,784 + 2,526$


b)

	Th	H	T	O
	6	0	7	5
+		9	4	8

d)  $79 + 654 + 1,312$


# MAIN TASK SHEET





# Year 4 Maths

26.06.20

LO: To be able to use my knowledge to solve problems

Follow the link to White Rose video or BBC video

We are working behind so please select **wk com 01/06**

Please complete the worksheet in your book.

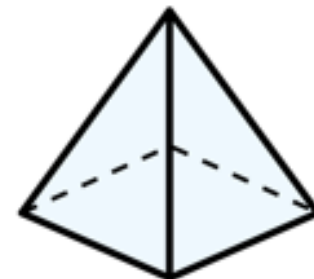
# Starter

## Flashback 4

Year 4 | Week 3 | Day 5

1) Compare using  $<$ ,  $>$  or  $=$

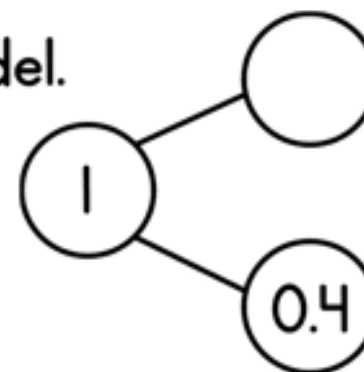
$$584 \text{ p } \bigcirc \text{ £}7.14$$



2) Order the decimals in descending order.

0.42 , 0.8 , 0.64

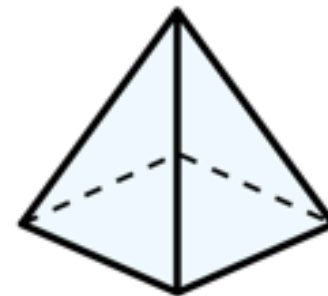
3) Complete the part-whole model.



4) Multiply 187 by 4

# Flashback 4

Year 4 | Week 3 | Day 5



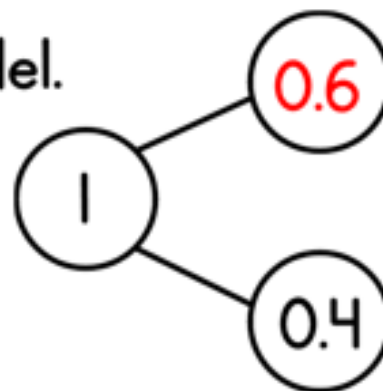
1) Compare using  $<$ ,  $>$  or  $=$

$$584 \text{ p } < \text{ £}7.14$$

2) Order the decimals in descending order.

$$0.42, 0.8, 0.64 \quad \mathbf{0.8, 0.64, 0.42}$$

3) Complete the part-whole model.



4) Multiply 187 by 4  $\mathbf{748}$

# MAIN TASK SHEET

Place Value Riddle Challenge Cards - Card 1



## What is the number?

- The number has four digits.
- It is smaller than 6000 but bigger than 5000.
- The hundreds digit is smaller than 6 but bigger than 4.
- The tens digit is an odd number smaller than 7 but bigger than 3.
- The ones digit is in the 3 times table and is bigger than 6 but smaller than 10.

Place Value Riddle Challenge Cards - Card 2



## What is the number?

- The number has three digits.
- The ones digit is 82 less than 91.
- The hundreds digit is an odd number which is bigger than 1 but smaller than 4.
- The tens digit is the same as  $6 + 3$ .

Place Value Riddle Challenge Cards - Card 3



## What is the number?

- The number has five digits.
- The ten thousands digit is the same as the hundreds digit, and it is an odd number which can be divided by 3 to make 3.
- The thousands digit is bigger than 8.
- The ones digit is half the number of months in a year.
- The tens digit is smaller than 1.

Place Value Riddle Challenge Cards - Card 4



## What is the number?

- The number has five digits.
- The thousands digit is number of fingers on one hand.
- The tens digit is the number of days in a week.
- The ones digit is half of 14.
- The hundreds digit is the first number you dial when you need to call a fire engine, an ambulance or the police.
- The ten thousands digit is  $2 + 4 + 2 - 7$ .

# EXTENSION SHEET

Place Value Riddle Challenge Cards - Card 5



## What is the number?

- The number has three digits.
- It is smaller than 700 but bigger than 600.
- The tens digit is  $\frac{1}{3}$  of 9.
- The ones digit is double 4.

Place Value Riddle Challenge Cards - Card 6



## What is the number?

- The number has four digits.
- The thousands digit is the same as 18 divided by 2.
- The hundreds digit is the same as 90 divided by 10.
- The ones digit is the same as  $3 \times 3$ .
- The tens digit is the same as  $100 - 91$ .

Place Value Riddle Challenge Cards - Card 7



## What is the number?

- The number has five digits.
- The ones digit is an even number that is bigger than 6 but smaller than 9.
- The ten thousands digit is the same as 800 divided by 100.
- The hundreds digit is the same as  $2 \times 2 \times 2$ .
- The tens digit is half of 10.
- The thousands digit is the same as  $50 - 20 - 20 - 5$ .

Place Value Riddle Challenge Cards - Card 1



## What is the number?

- The number has five digits.
- The ones digit is  $\frac{1}{4}$  of 32.
- The hundreds is the number of sides in a hexagon.
- The tens digit is an even number that is multiple of 2 and of 4 that is less than 6.
- The ten thousands digit is the smallest possible odd number.
- The thousands digit is the same as  $36 \div 12$ .

**What is the number? Answers**



Card 1: 648

Card 2: 703

Card 3: 119

Card 4: 7426

Card 5: 9381

Card 6: 7004

Card 7: 4513

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**What is the number? Answers**



Card 1: 5559

Card 2: 399

Card 3: 99906

Card 4: 15977

Card 5: 638

Card 6: 9999

Card 7: 85858

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**What is the number? Answers**



Card 1: 13 648

Card 2: 42 886

Card 3: 703 291

Card 4: 128 749

Card 5: 335 973

Card 6: 3 418 659

Card 7: 5 182 247

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Main Task Answers

Two star cards 1 to 4

Extension Task Answers

Two star cards 5 to 7 and 3 star card 1