DIVISION – DAY 4

L.O. I can divide 4 digit numbers by 1 digit numbers

STARTER

L.O. I can divide 4 digit numbers by 1 digit numbers

Which one doesn't belong?

264 ÷ 2	528 ÷ 4	798 ÷ 6	396 ÷ 3

Explain your answer.

STARTER

L.O. I can divide 4 digit numbers by 1 digit numbers

Which one doesn't belong?

264 ÷ 2	528 ÷ 4	798 ÷ 6	396 ÷ 3

798 ÷ 6 doesn't belong as its quotient is 133. Whereas, 264 ÷ 2, 396 ÷ 3 and 528 ÷ 4 all share the same quotient, 132.

FLUENCY

L.O. I can divide 4 digit numbers by 1 digit numbers

Use counters and a place value chart to calculate 2,472 ÷ 2.

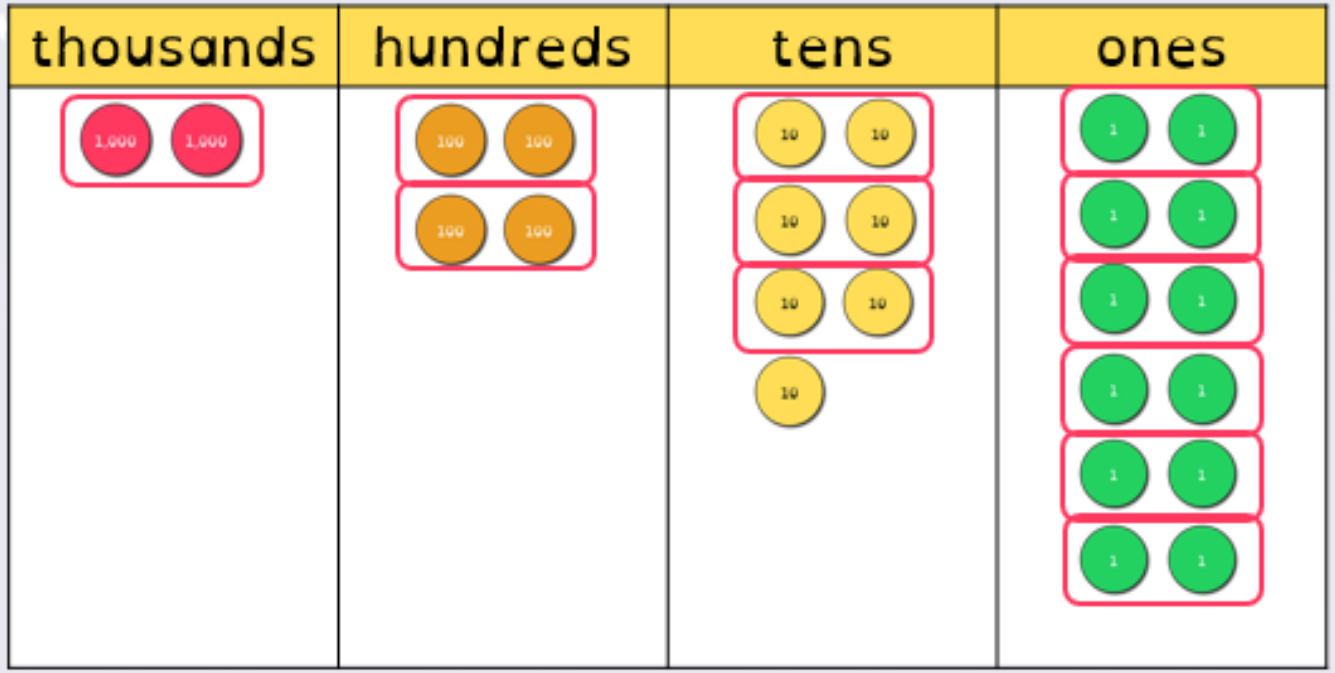
thousands	hundreds	tens	ones
1,000 1,000	100 100 100 100	10 10 10 10 10 10 10 10 10	1 1

2	2	4	7	2

FLUENCY

L.O. I can divide 4 digit numbers by 1 digit numbers

Use counters and a place value chart to calculate 2,472 ÷ 2.

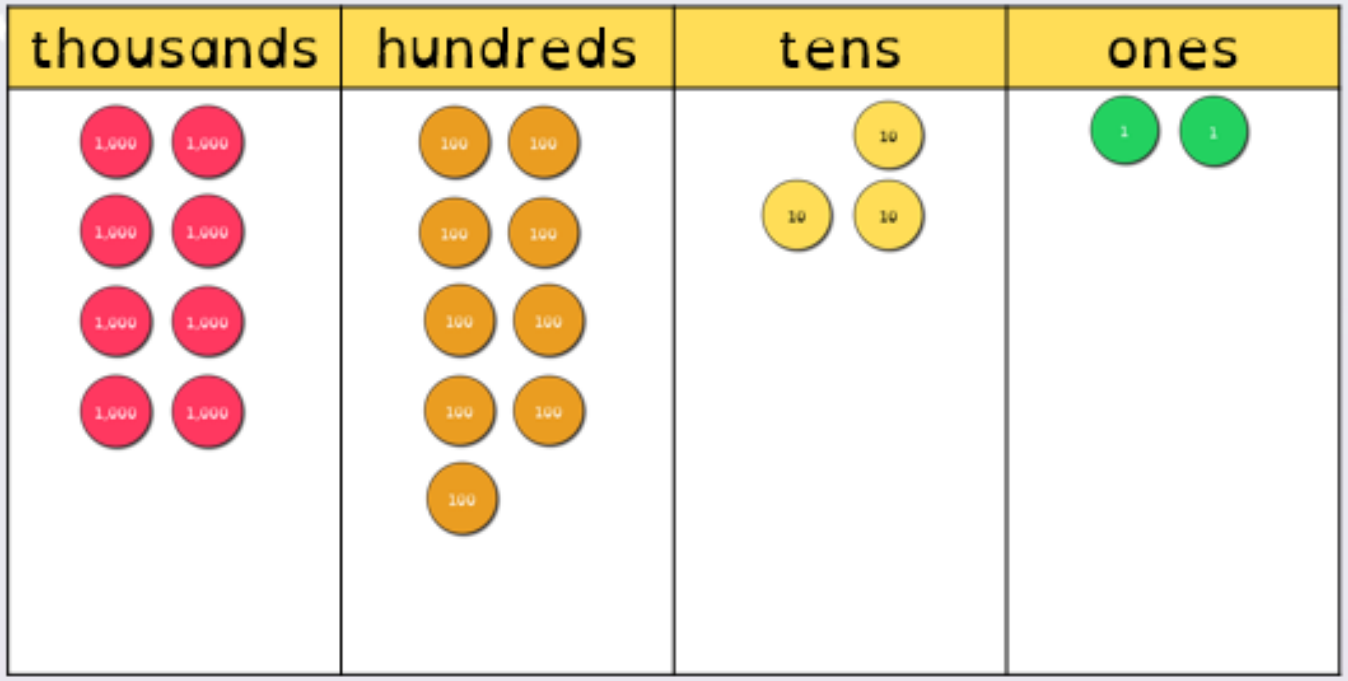


2	2	4	7	2

FLUENCY

L.O. I can divide 4 digit numbers by 1 digit numbers

Use counters and a place value chart to calculate 8,932 ÷ 4.

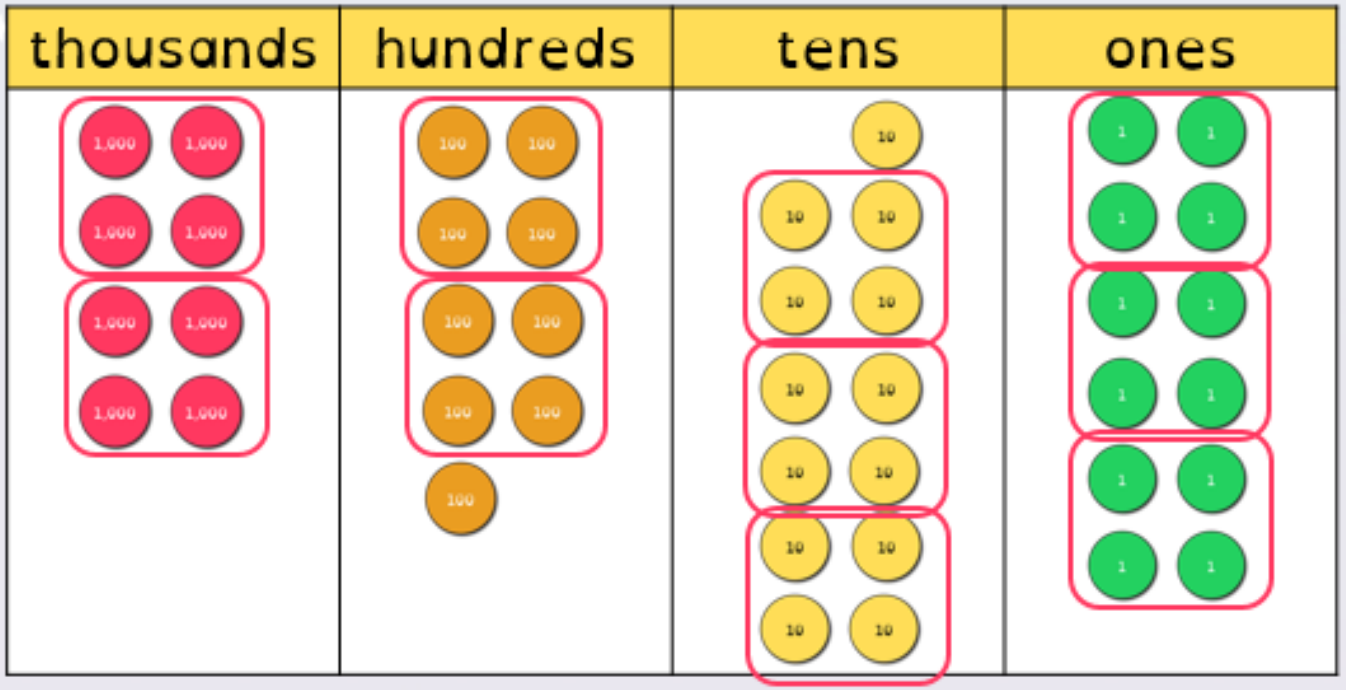


4	8	9	3	2

FLUENCY

L.O. I can divide 4 digit numbers by 1 digit numbers

Use counters and a place value chart to calculate 8,932 ÷ 4.



4	8	9	3	2

FLUENCY

L.O. I can divide 4 digit numbers by 1 digit numbers

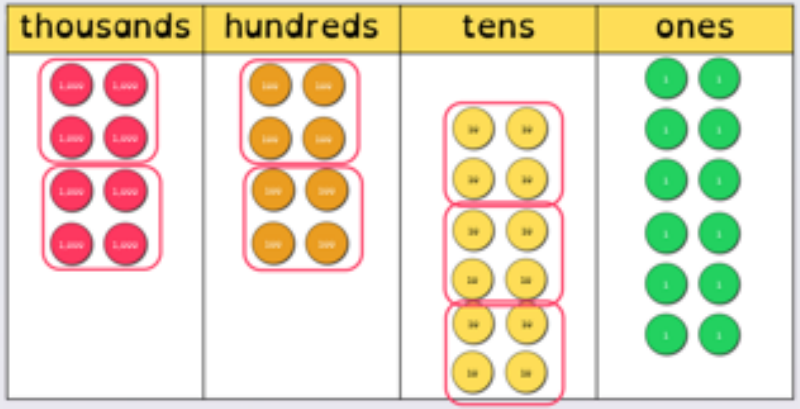
Use counters and a place value chart to calculate:

a) 2,692 ÷ 2

b) 9,096 ÷ 4

c) 9,729 ÷ 3

d) 6,345 ÷ 5



	2	2	3	3
4	8	9	$^{1}3$	$^{1}2$

FLUENCY

L.O. I can divide 4 digit numbers by 1 digit numbers

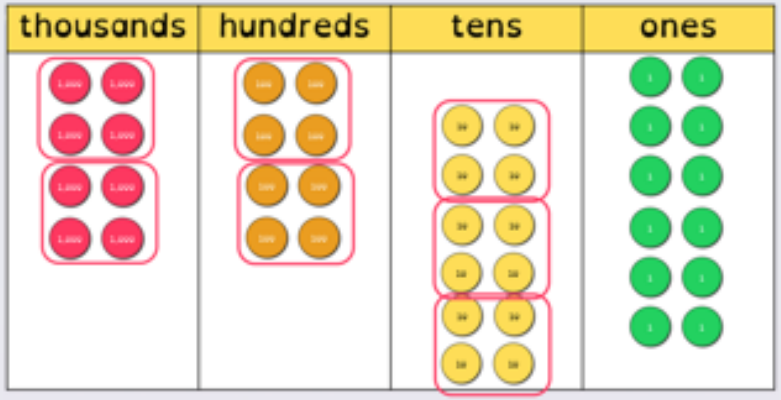
Use counters and a place value chart to calculate:

a) 2,692 ÷ 2 = 1,346

b) 9,096 ÷ 4 = 2,274

c) 9,729 ÷ 3 = 3,243

d) 6,345 ÷ 5 = 1,269



	2	2	3	3
4	8	9	13	12

PROBLEM SOLVING

L.O. I can divide 4 digit numbers by 1 digit numbers

Solve the word problems below.

a) Jamal, Ruth and Yasmin have won a jackpot prize of £9,819.
They split it equally among the three of them.
How much money does each person receive?

b) Hilltop Academy raised £7,835.
They want to share the money equally among five charities.
How much money will each charity receive?

PROBLEM SOLVING

L.O. I can divide 4 digit numbers by 1 digit numbers

Solve the word problems below.

a) Jamal, Ruth and Yasmin have won a jackpot prize of £9,819.
They split it equally among the three of them.
How much money does each person receive?
£9,819 ÷ 3 = £3,273

b) Hilltop Academy raised £7,835.
They want to share the money equally among five charities.
How much money will each charity receive?
£7,835 ÷ 5 = £1,567

PROBLEM SOLVING

L.O. I can divide 4 digit numbers by 1 digit numbers

Use the comparison symbols (<, > and =) to complete the following:

7,254 ÷ 2	◯	9,519 ÷ 3
4,419 ÷ 3	◯	5,156 ÷ 4
8,337 ÷ 7	◯	3,573 ÷ 3
7,085 ÷ 5	◯	8,631 ÷ 7

PROBLEM SOLVING

L.O. I can divide 4 digit numbers by 1 digit numbers

Use the comparison symbols (<, > and =) to complete the following:

7,254 ÷ 2 = 3,627	>	9,519 ÷ 3 = 3,173
4,419 ÷ 3 = 1,473	>	5,156 ÷ 4 = 1,289
8,337 ÷ 7 = 1,191	=	3,573 ÷ 3 = 1,191
7,085 ÷ 5 = 1,417	>	8,631 ÷ 7 = 1,233

PROBLEM SOLVING

L.O. I can divide 4 digit numbers by 1 digit numbers

James says, “It’s impossible to divide 2,261 by 7 as each of the digits in the dividend are worth less than the divisor.”

Is James’ statement true or false?

Explain your answer.

PROBLEM SOLVING

L.O. I can divide 4 digit numbers by 1 digit numbers

James says, “It’s impossible to divide 2,261 by 7 as each of the digits in the dividend are worth less than the divisor.”

James’ statement is false. By exchanging from a greater place value column, it is possible to divide numbers with digits worth less than the value of the single-digit number it is being divided by. This is shown by the calculation below.

		3	2	3
7	2	$^{2}2$	$^{1}6$	$^{2}1$

PROBLEM SOLVING

L.O. I can divide 4 digit numbers by 1 digit numbers

What's gone wrong?

thousands	hundreds	tens	ones
1,000 1,000 1,000 1,000 1,000 1,000 1,000	100 100 100 100		1 1 1 1

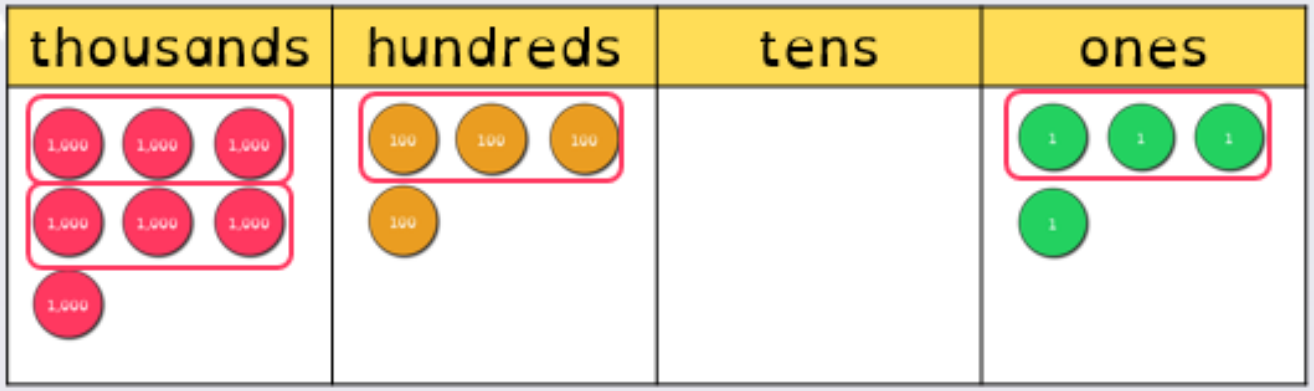
Explain your answer.

	2	1	0	1
3	7	4	0	4

PROBLEM SOLVING

L.O. I can divide 4 digit numbers by 1 digit numbers

What's gone wrong?



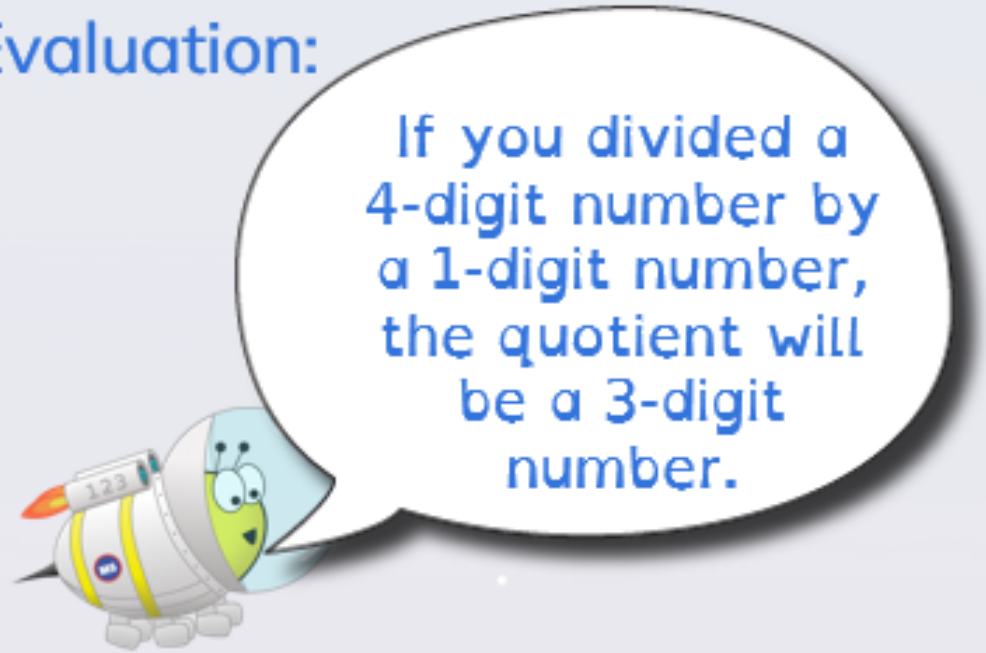
No exchanges have happened, so the answer is incorrect.
If exchanges happen correctly, then the result is 2,468.

	2	1	0	1
3	7	4	0	4

REASONING

L.O. I can divide 4 digit numbers by 1 digit numbers

Evaluation:



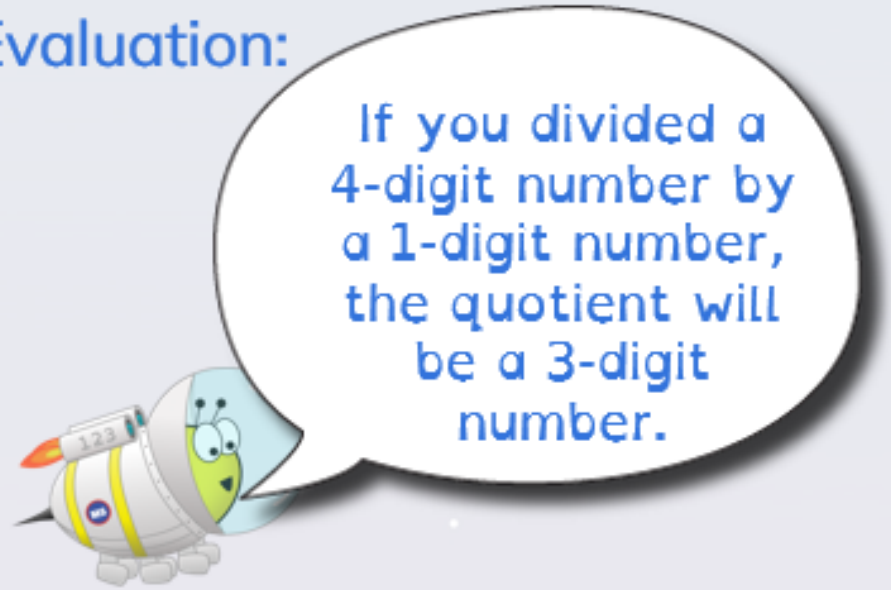
Is Astrobee's statement always, sometimes or never true?

Explain your answer.

REASONING

L.O. I can divide 4 digit numbers by 1 digit numbers

Evaluation:



Astrobee's statement is sometimes true. Some 4-digit numbers multiplied by a 1-digit number will have a 3-digit result. While others will result in a 4-digit quotient. For example. 1,024 ÷ 2 = 512 or 3,693 ÷ 3 = 1,231.