Monday 21.11.22

MPI: Short division without remainders

$5 \overline{)9,305}$ $4 \overline{)4,616}$

$9 \overline{)3,807}$ $3 \overline{)6,291}$

$6 \overline{)1,128}$ $2 \overline{)8,254}$

Asha knows she has made a mistake in the calculation below.

	2	2	0	3
3	6	7	$^{1}2$	9

Find and explain her error. What should the correct answer be?

Moa dropped a counter from his place value grid but can't remember where it fell from! What calculation could Moa have completed if he was dividing by 6 and had no remainders?

Thousands	Hundreds	Tens	Ones
1,000 1,000	100 100	10 10	1 1
	100 100	10 10	1
		10 10	
		10 10	

Lucy has written a comparison statement.

2,214 ÷ 9 > 2,247 ÷ 7 < 2,496 ÷ 8

Is she correct? Explain how you know.

Casey has got 12 counters to place in the place value grid to create a calculation.
The ones column has half the counters.
What calculation can Casey complete if she is dividing by 8 and has no remainders?

Thousands	Hundreds	Tens	Ones

Tuesday 22.11.22

MPI: Understanding the relationship between short and long division

Choose column A, B or C (A = most simple, C = trickiest).

For each calculation, write the short division calculation, and then next to it the long division method.

÷
×
−
↓

Success criteria

1. Divide
2. Multiply
3. Subtract
4. Bring it down...
5. ... and bring it on back!

	A		B		C
1)	626 ÷ 2 =	1)	1,572 ÷ 3 =	1)	2,580 ÷ 4 =
2)	734 ÷ 2 =	2)	1,016 ÷ 4 =	2)	2,790 ÷ 6 =
3)	702 ÷ 3 =	3)	3,740 ÷ 5 =	3)	2,975 ÷ 7 =
4)	568 ÷ 4 =	4)	1,944 ÷ 6 =	4)	5,400 ÷ 8 =
5)	1,775 ÷ 5 =	5)	2,889 ÷ 9 =	5)	6,183 ÷ 9 =

Tuesday 22.11.22

MPI: Understanding the relationship between short and long division

Choose column A, B or C (A = most simple, C = trickiest).

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Wednesday 23.11.22

MPI: Listing multiples of 2 digit numbers to prepare for long division

Choose your level of challenge and list the next 8 multiples of each number.

Show the partitioning method and the repeated method for each number in your book.

Professional

1) 24 2) 43 4) 34 5) 54 5) 63

Expert

1) 46 2) 74 5) 69 6) 54 6) 49

Wednesday 23.11.22

MPI: Listing multiples of 2 digit numbers to prepare for long division

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Expert

1) 46 2) 74 5) 69 6) 54 6) 49

Wednesday 23.11.22

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Wednesday 23.11.22

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Choose your level of challenge and list the next 8 multiples of each number.

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Professional

1) 24 2) 43 4) 34 5) 54 5) 63

Expert

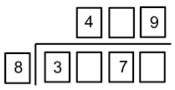
1) 46 2) 74 5) 69 6) 54 6) 49

Wednesday 23.11.22

BONUS CHALLENGE

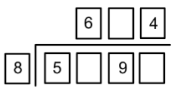
use the given digits to make the division sums correct

(1)



uses all of
2, ~~3~~, ~~4~~, 5, 6, ~~7~~, ~~8~~, ~~9~~

(2)



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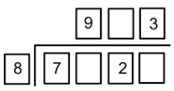

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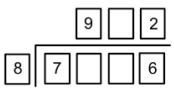
(4)



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two answers

Wednesday 23.11.22

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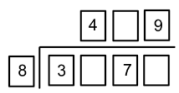

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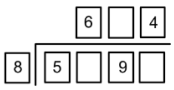

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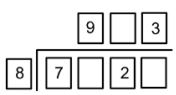

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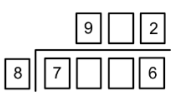

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Wednesday 23.11.22

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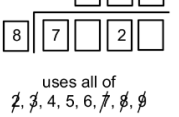

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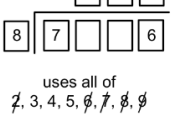

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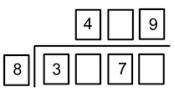

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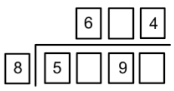

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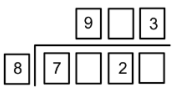

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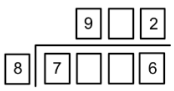

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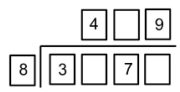

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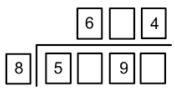

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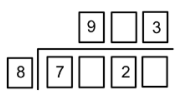

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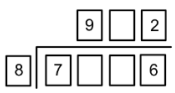

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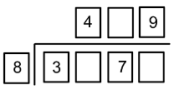

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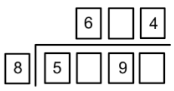

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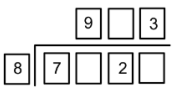

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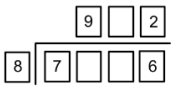

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two answers

Thursday 24.11.22

MPI: Long division without remainders

÷ × − ↓

Success criteria

1. List multiples of the divisor (are you going to do repeated addition or partition and add?)
2. Divide
3. Multiply
4. Subtract
5. Bring it down...
6. ... and bring it on back!

1 - 24
2 - 48
3 - 72
4 - 96
5 - 120
6 - 144
7 - 168
8 - 192
9 - 216

```
  00543
24|13032
-120
  103
 -96
   72
  -72
   00
```

A	B	C
1) 2,574 ÷ 11 =	1) 4,096 ÷ 16 =	1) 13,528 ÷ 38 =
2) 1,476 ÷ 12 =	2) 4,488 ÷ 17 =	2) 18,473 ÷ 49 =
3) 2,982 ÷ 21 =	3) 2,628 ÷ 18 =	3) 28,324 ÷ 97 =
4) 7,062 ÷ 22 =	4) 6,764 ÷ 19 =	4) 10,147 ÷ 73 =
5) 6,165 ÷ 15 =	5) 12,350 ÷ 26 =	5) 46,182 ÷ 86 =

Choose column A, B or C

(A = most simple, C = trickiest).

Thursday 24.11.22

MPI: Long division without remainders

÷ × − ↓

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