## Dividing 4-Digits by 1-Digit (With Exchanging)

To divide 4-digit numbers by 1-digit numbers
000

1) Colour each division to match with the correct answer. Use different colours for each question. Use your Place Value Grid to help you if you need to.

|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 9 | 9 | 8 | 1 |  |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 5 | 3 | 1 | 5 | 5 |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 5 | 4 | 0 | 6 | 5 |


| 312 <br> 997 <br> 109 <br> 569 <br> 131 <br> 813 <br> 801 |
| :---: | :---: |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 7 | 5 | 6 | 0 | 7 |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 3 | 9 | 3 | 6 |  |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 3 | 9 | 4 | 2 |  |

## Dividing 4-Digits by 1-Digit (With Exchanging)

To divide 4-digit numbers by 1-digit numbers
000

1) Colour each division to match with the correct answer. Use different colours for each question. Use your Place Value Grid to help you if you need to.

|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 2 | 1 | 8 | 1 | 6 |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 4 | 1 | 4 | 4 | 8 |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 5 | 2 | 1 | 3 | 5 |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 8 | 3 | 3 | 2 | 0 |



|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 6 | 5 | 4 | 3 | 0 |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 5 | 4 | 0 | 6 | 5 |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 3 | 2 | 0 | 0 | 1 |


| 206 <br> 627 <br> 967 <br> 341 <br> 813 <br> 246 <br> 362 <br> 405 <br> 651 |
| :---: |

## Dividing 4-Digits by 1-Digit (With Exchanging)

2) Use the answers remaining from question 1 to write your own 4 digit division questions which give the number as an answer.


Hint: Use the inverse to help you!
3)
a) Use your knowledge of short division to help you find the missing digits in these divisions.


## Dividing 4-Digits by 1-Digit (With Exchanging)

To divide 4-digit numbers by 1-digit numbers

1) Colour each division to match with the correct answer. Use different colours for each question. Use your Place Value Grid to help you if you need to.

|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 8 | 2 | 4 | 7 | 2 |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 4 | 3 | 2 | 2 | 8 |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 9 | 2 | 5 | 3 | 8 |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 8 | 7 | 5 | 5 | 2 |



|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 9 | 1 | 5 | 9 | 3 |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 7 | 1 | 4 | 0 | 7 |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 9 | 6 | 4 | 2 | 6 |


| 309 | 623 |
| :---: | :---: |
| 714 | 741 |
| 187 | 177 |
| 402 | 282 |
| 884 | 944 |
| 201 | 807 |
| 944 | 266 |

## Dividing 4-Digits by 1-Digit (With Exchanging)

2) Use the answers remaining from question 1 to write your own division questions which give the number as answer.


Hint: Use the inverse of division to help you!
3)
a) Use your knowledge of short division to help you find the missing digits in these divisions.


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b) Create your own division problem for a friend to solve. Make sure the dividend can be divided exactly by the divisor.


## Dividing 4-Digits by 1-Digit (With Exchanging) Answers

To divide 4-digit numbers by 1-digit numbers
000

1) Colour each division to match with the correct answer. Use different colours for each question. Use your Place Value Grid to help you if you need to.

|  | $\mathbf{1}$ | $\mathbf{0}$ | $\mathbf{9}$ |  |
| :--- | :--- | :--- | :--- | :--- |
| 9 | 9 | 8 | 1 |  |


|  |  | $\mathbf{6}$ | $\mathbf{3}$ | $\mathbf{1}$ |
| :--- | :--- | :--- | :--- | :--- |
| 5 | 3 | 1 | 5 | 5 |


|  |  | $\mathbf{8}$ | $\mathbf{1}$ | $\mathbf{3}$ |
| :--- | :--- | :--- | :--- | :--- |
| 5 | 4 | 0 | 6 | 5 |


| 312 | 553 |
| :---: | :---: |
| 997 | 109 |
| 569 | 131 |
| 813 | 801 |
| 631 | 314 |

801

|  |  | $\mathbf{8}$ | $\mathbf{0}$ | $\mathbf{1}$ |
| :--- | :--- | :--- | :--- | :--- |
| 7 | 5 | 6 | 0 | 7 |


|  | $\mathbf{3}$ | $\mathbf{1}$ | $\mathbf{2}$ |  |
| :--- | :--- | :--- | :--- | :--- |
| 3 | 9 | 3 | 6 |  |


|  | $\mathbf{3}$ | $\mathbf{1}$ | $\mathbf{4}$ |  |
| :--- | :--- | :--- | :--- | :--- |
| 3 | 9 | 4 | 2 |  |

## Dividing 4-Digits by 1-Digit (With Exchanging) Answers

To divide 4-digit numbers by 1-digit numbers
000

1) Colour each division to match with the correct answer. Use different colours for each question. Use your Place Value Grid to help you if you need to.

|  |  | $\mathbf{9}$ | $\mathbf{0}$ | $\mathbf{8}$ |
| :--- | :--- | :--- | :--- | :--- |
| 2 | 1 | 8 | 1 | 6 |


|  |  | $\mathbf{3}$ | $\mathbf{6}$ | $\mathbf{2}$ |
| :--- | :--- | :--- | :--- | :--- |
| 4 | 1 | 4 | 4 | 8 |


|  |  | $\mathbf{4}$ | $\mathbf{2}$ | $\mathbf{7}$ |
| :--- | :--- | :--- | :--- | :--- |
| 5 | 2 | 1 | 3 | 5 |


|  |  | $\mathbf{4}$ | $\mathbf{1}$ | $\mathbf{5}$ |
| :--- | :--- | :--- | :--- | :--- |
| 8 | 3 | 3 | 2 | 0 |


|  | $\mathbf{2}$ | $\mathbf{4}$ | $\mathbf{6}$ |  |
| :--- | :--- | :--- | :--- | :--- |
| 4 | 9 | 8 | 4 |  |


|  |  | $\mathbf{2}$ | $\mathbf{7}$ | $\mathbf{2}$ |
| :--- | :--- | :--- | :--- | :--- |
| 4 | 1 | 0 | 8 | 8 |


|  |  | $\mathbf{9}$ | $\mathbf{0}$ | $\mathbf{5}$ |
| :--- | :--- | :--- | :--- | :--- |
| 6 | 5 | 4 | 3 | 0 |


|  |  | $\mathbf{8}$ | $\mathbf{1}$ | $\mathbf{3}$ |
| :--- | :--- | :--- | :--- | :--- |
| 5 | 4 | 0 | 6 | 5 |


|  |  | $\mathbf{6}$ | $\mathbf{6}$ | $\mathbf{7}$ |
| :--- | :--- | :--- | :--- | :--- |
| 3 | 2 | 0 | 0 | 1 |


| 206 | 427 |
| :---: | :---: |
| 667 908 <br> 341 813 <br> 246 362 <br> 272 415 <br> 905 651 |  |

## Dividing 4-Digits by 1-Digit (With Exchanging) Answers

2) Use the answers remaining from question 1 to write your own 4 digit division questions which give the number as an answer.

Numbers: 206, 341, 651 -

## Varying answers based on numbers:

e.g.
$1236 \div 6=206$
$1705 \div 5=341$
$2604 \div 4=651$
3)
a) Use your knowledge of short division to help you find the missing digits in these divisions.

|  |  | 8 | 7 | 8 |
| :---: | :---: | :---: | :---: | :---: |
| 3 | 2 | 6 | ${ }^{2} 3$ | ${ }^{2} 4$ |


|  | 1 | 0 | 1 | 4 |
| :--- | :--- | :--- | :--- | :--- |
| 4 | 4 | 0 | 5 | ${ }^{1} 6$ |

b) Create your own division problem for a friend to solve.

Make sure the dividend can be divided exactly by the divisor.

## Varying answers



## Dividing 4-Digits by 1-Digit (With Exchanging) Answers

To divide 4-digit numbers by 1-digit numbers

1) Colour each division to match with the correct answer. Use different colours for each question. Use your Place Value Grid to help you if you need to.

|  |  | 3 | 0 | 9 |
| :--- | :--- | :--- | :--- | :--- |
| 8 | 2 | 4 | 7 | 2 |


|  |  | 8 | $\mathbf{0}$ | 7 |
| :--- | :--- | :--- | :--- | :--- |
| 4 | 3 | 2 | 2 | 8 |


|  |  | $\mathbf{2}$ | $\mathbf{8}$ | $\mathbf{2}$ |
| :--- | :--- | :--- | :--- | :--- |
| 9 | 2 | 5 | 3 | 8 |


|  |  | $\mathbf{9}$ | $\mathbf{4}$ | $\mathbf{4}$ |
| :--- | :--- | :--- | :--- | :--- |
| 8 | 7 | 5 | 5 | 2 |


|  |  | $\mathbf{2}$ | $\mathbf{6}$ | $\mathbf{6}$ |
| :--- | :--- | :--- | :--- | :--- |
| 6 | 1 | 5 | 9 | 6 |


|  |  | $\mathbf{8}$ | $\mathbf{8}$ | $\mathbf{4}$ |
| :--- | :--- | :--- | :--- | :--- |
| 3 | 2 | 6 | 5 | 2 |


|  |  | $\mathbf{1}$ | $\mathbf{7}$ | $\mathbf{7}$ |
| :--- | :--- | :--- | :--- | :--- |
| 9 | 1 | 5 | 9 | 3 |


|  |  | $\mathbf{2}$ | $\mathbf{0}$ | $\mathbf{1}$ |
| :--- | :--- | :--- | :--- | :--- |
| 7 | 1 | 4 | 0 | 7 |


|  |  | $\mathbf{7}$ | $\mathbf{1}$ | $\mathbf{4}$ |
| :--- | :--- | :--- | :--- | :--- |
| 9 | 6 | 4 | 2 | 6 |


2) Use the answers remaining from question 1 to write your own division questions which give the number as an answer.

Numbers: 623, 187, 402, 741 -
Varying answers based on numbers:
e.g.
$3115 \div 5=623$
$1496 \div 8=187$
$2412 \div 6=402$
$5928 \div 8=741$
3)
a) Use your knowledge of short division to help you find the missing digits in these divisions.
$8525 \div 5=1705$
$4560 \div 4=1140$

|  | 1 | 7 | 0 | 5 |
| :---: | :---: | :---: | :---: | :---: |
| 5 | 8 | ${ }^{3} 5$ | 2 | 5 |


|  | 1 | 1 | 4 | 0 |
| :--- | :--- | :--- | :--- | :--- |
| 4 | 4 | 5 | 1 | 6 |

$7260 \div 6=1210$

|  | 1 | 2 | 1 | 0 |
| :--- | :--- | :--- | :--- | :--- |
| 6 | 7 | 2 | 6 | 0 |

b) Create your own division problem for a friend to solve. Make sure the dividend can be divided exactly by the divisor.

## Varying answers


1)
a) $\mathbf{7 4 5 8}$
b) $7458 \div 6=1243$

|  | 1 | 2 | 4 | 3 |
| :---: | :---: | :---: | :---: | :---: |
| 6 | 7 | $1_{4}$ | ${ }^{2} 5$ | ${ }^{1} 8$ |

c) Yes. $7458 \div 3=2486$.

This is because 3 is a factor of 6 . 7458 is a multiple of 3 and 6 .

|  | 2 | 4 | 8 | 6 |
| :---: | :---: | :---: | :---: | :---: |
| 3 | 7 | ${ }^{1} 4$ | ${ }^{2} 5$ | ${ }^{1} 8$ |

2) $7329 \div 7=1047$
$9240 \div 4=2310$
$6345 \div 5=1269$
$8244 \div 9=916$
3) 

a) False. $4616 \div 4=1154$
b) True.
c) False. $9849 \div 7=1407$

1) Yes, because

2) He is incorrect. $5264 \div 4=1316$ and $1316<1721$

He is incorrect.
$9123 \div 3=3041$ and $2901<3041$
3) She was incorrect because she forgot to exchange the remaining $\mathbf{1 0 0 0}$ for 10 hundreds. This is then divisible by 2, which is 500 .

Divided correctly, 5068 $\div 2=2534$

She was incorrect because she has forgotten to exchange reminders in each column.

1) Varying answers, including: $1023 \div 3=341$
$1032 \div 3=344$
$3021 \div 3=1007$
$3003 \div 3=1001$
$3030 \div 3=1010$
$6000 \div 3=2000$
2) 

a) $6345 \div 5=1269$
b) Yes, it is also divisible by 3 and 9:
$6345 \div 3=2115$ $6345 \div 9=705$
2) Varying answers including: $8745 \div 5=1749$
1)
a) Identify the number represented in the place value chart.
b) Divide the number by 6, using the written method of short division and exchanging if necessary. Use the place value chart to circle the groups of 6 to help you.
c) Can you divide the number shown in the place value table by 3, too? Prove it. Why do you think this is?

2) Complete the following divisions using the formal method. Use a place value chart to help.

3) True or false? Use place value counters to help you
a) $4616 \div 4=1213$ $\square$

b) $7707 \div 3=2569$ $\square$

c) $9849 \div 7=1432$


| 1000 s | 100 s | 10 s | 1 s |
| :--- | :--- | :--- | :--- |
|  |  |  |  |
|  |  |  |  |

1) Is this statement true? Prove it.


|  |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |  |  |  |

2) Leo has written some comparison statements. Is he correct? Prove it.

|  |  |  |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |


3) Talia has completed her homework, but she has made some mistakes. Explain the mistakes and calculate the correct answers.


|  |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

1) Noah has 6 counters. He uses a place value grid to create division questions. Use the clues to find out which calculations he could make.


The hundreds column has no counters.

The number is exactly divisible by 3.
Leo


|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

2) Choose your own digits to complete this calculation. Can you show five different ways?


|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

3) 

a) Use your knowledge of short division to help you find the missing digits in this division.
b) Use the dividend you have just found and investigate if it is divisible by any other numbers. Is there more than one answer?


|  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

1) 

a) Identify the number represented in the place value chart.
b) Divide the number by 6, using the written method of short division and exchanging if necessary. Use the place value chart to circle the groups of 6 to help you.
c) Can you divide the number shown in the place value table by 3, too? Prove it. Why do you think this is?

2) Complete the following divisions using the formal method. Use a place value chart to help.

3) True or false? Use place value counters to help you.
a) $4616 \div 4=1213$
b) $7707 \div 3=2569$
c) $9849 \div 7=1432$

| 1000 s | 100 s | 10 s | 1 s |
| :--- | :--- | :--- | :--- |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

1) 

a) Identify the number represented in the place value chart.
b) Divide the number by 6, using the written method of short division and exchanging if necessary. Use the place value chart to circle the groups of 6 to help you.
c) Can you divide the number shown in the place value table by 3, too? Prove it. Why do you think this is?

2) Complete the following divisions using the formal method. Use a place value chart to help.

3) True or false? Use place value counters to help you.
a) $4616 \div 4=1213$
b) $7707 \div 3=2569$
c) $9849 \div 7=1432$

| 1000 s | 100 s | 10 s | 1 s |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

1) Is this statement true? Prove it.

2) Leo has written some comparison statements. Is he correct? Prove it.

3) Talia has completed her homework, but she has made some mistakes. Explain the mistakes and calculate the correct answers.

|  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  | 2 | 0 | 3 | 4 |  |
|  | 2 | 5 | 0 | 6 | 8 |  |
|  |  |  |  |  |  |  |

1) Is this statement true? Prove it.

2) Leo has written some comparison statements. Is he correct? Prove it.

3) Talia has completed her homework, but she has made some mistakes. Explain the mistakes and calculate the correct answers.

|  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  | 2 | 0 | 3 | 4 |  |
|  | 2 | 5 | 0 | 6 | 8 |  |
|  |  |  |  |  |  |  |

1) Noah has 6 counters. He uses a place value grid to create division questions. Use the clues to find out which calculations he could make.


The hundreds column has no counters.

The number is exactly divisible by 3.

| 1000 s | 100 s | 10 s | 1 s |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

2) Choose your own digits to complete this calculation. Can you show five different ways?

3) 

a) Use your knowledge of short division to help you find the missing digits in this division.

b) Use the dividend you have just found and investigate if it is divisible by any other numbers. Is there more than one answer?

1) Noah has 6 counters. He uses a place value grid to create division questions. Use the clues to find out which calculations he could make.


| 1000 s | 100 s | 10 s | 1 s |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

2) Choose your own digits to complete this calculation. Can you show five different ways?

3) 

a) Use your knowledge of short division to help you find the missing digits in this division.

b) Use the dividend you have just found and investigate if it is divisible by any other numbers. Is there more than one answer?

