## Dividing 4-Digit Numbers (Without Exchanging)

To divide 4-digit numbers by 1-digit numbers

1) Identify the numbers represented in the place value chart and complete the division, using the formal method.
a)


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

b)


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 2 |  |  |  |  |
|  |  |  |  |  |

c)

| 1000 s | 100 s | 10 s | 1 s |
| :---: | :---: | :---: | :---: |
| $\bigcirc$ |  | $\bigcirc \bigcirc$ |  |
|  |  | $\bigcirc$ |  |
|  |  | $\bigcirc$ |  |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 4 |  |  |  |  |
|  |  |  |  |  |

d)

| 1000 s | 100 s | 10 s | 1 s |
| :---: | :---: | :---: | :---: |
| $\bigcirc \bigcirc$ | $\bigcirc$ | $\bigcirc$ |  |
|  |  |  |  |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 2 |  |  |  |  |
|  |  |  |  |  |

Dividing 4-Digit Numbers (Without Exchanging)
2) Complete the following division problems, using the formal method. You may wish to use the place value grids to help you.
a)

|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 2 | 8 | 4 | 2 | 6 |
|  |  |  |  |  |


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

b)

|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 4 | 8 | 8 | 0 | 4 |
|  |  |  |  |  |


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

c)

|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 3 | 9 | 3 | 6 | 0 |
|  |  |  |  |  |


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

d)

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


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

## Dividing 4-Digit Numbers (Without Exchanging)

To divide 4-digit numbers by 1-digit numbers

1) Identify the numbers represented in the place value chart and complete the division, using the formal method.
a)


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 2 |  |  |  |  |
|  |  |  |  |  |

b)


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 3 |  |  |  |  |
|  |  |  |  |  |

c)


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 4 |  |  |  |  |
|  |  |  |  |  |

d)

| 1000 s | 100 s | 10 s | 1 s |
| :---: | :---: | :---: | :---: |
| $\bigcirc \bigcirc$ |  | $\bigcirc \bigcirc \bigcirc$ |  |
|  |  |  | $O$ |
|  |  |  |  |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 2 |  |  |  |  |
|  |  |  |  |  |

2) Use the number cards below to generate your own 4-digit number and complete the division questions, using the formal method. Cards can be used as many times as necessary.
a) Divisor $=2$


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 2 |  |  |  |  |
|  |  |  |  |  |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 2 |  |  |  |  |
|  |  |  |  |  |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 2 |  |  |  |  |
|  |  |  |  |  |



|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 2 |  |  |  |  |
|  |  |  |  |  |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 2 |  |  |  |  |
|  |  |  |  |  |

b) Divisor $=3$



## Dividing 4-Digit Numbers (Without Exchanging)

To divide 4-digit numbers by 1-digit numbers

1) Identify the numbers represented in the place value chart and complete the division, using the formal method.
a)

c)


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

b)

d)

2) Use the number cards below to generate your own 4-digit number and complete the division questions, using the formal method. Cards can be used as many times as necessary.
a) Divisor = 2
2
4

8

0

|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 2 |  |  |  |  |
|  |  |  |  |  |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 2 |  |  |  |  |
|  |  |  |  |  |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 2 |  |  |  |  |
|  |  |  |  |  |

a) Divisor $=3$
3
6
9
0

|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 3 |  |  |  |  |
|  |  |  |  |  |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 3 |  |  |  |  |
|  |  |  |  |  |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 3 |  |  |  |  |
|  |  |  |  |  |

a) Divisor $=4$


0

|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 4 |  |  |  |  |
|  |  |  |  |  |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 4 |  |  |  |  |
|  |  |  |  |  |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 4 |  |  |  |  |
|  |  |  |  |  |

Dividing 4-Digit Numbers (Without Exchanging) Answers

To divide 4-digit numbers by 1-digit numbers


1) Identify the numbers represented in the place value chart and complete the division, using the formal method.
a)


|  | 1 | 0 | 3 | 1 |
| :--- | :--- | :--- | :--- | :--- |
| 3 | 3 | 0 | 9 | 3 |
|  |  |  |  |  |

b)


|  | 3 | 4 | 1 | 0 |
| :--- | :--- | :--- | :--- | :--- |
| 2 | 6 | 8 | 2 | 0 |
|  |  |  |  |  |

c)


|  | 1 | 0 | 2 | 0 |
| :--- | :--- | :--- | :--- | :--- |
| 4 | 4 | 0 | 8 | 0 |
|  |  |  |  |  |

d)


|  | 2 | 2 | 1 | 2 |
| :--- | :--- | :--- | :--- | :--- |
| 2 | 4 | 4 | 2 | 4 |
|  |  |  |  |  |

2) Complete the following division problems, using the formal method. You may wish to use the place value grids to help you.

Children draw place value counters to support them
a)

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


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

b)

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


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

c)

|  | $\mathbf{3}$ | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{0}$ |
| :--- | :--- | :--- | :--- | :--- |
| 3 | 9 | 3 | 6 | 0 |
|  |  |  |  |  |


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

d)

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


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

Dividing 4-Digit Numbers (Without Exchanging) Answers

To divide 4-digit numbers by 1-digit numbers


1) Identify the numbers represented in the place value chart and complete the division, using the formal method.
a)


|  | 1 | 1 | 4 | 2 |
| :--- | :--- | :--- | :--- | :--- |
| 2 | 2 | 2 | 8 | 4 |
|  |  |  |  |  |

b)


|  | 1 | 1 | 2 | 2 |
| :--- | :--- | :--- | :--- | :--- |
| 3 | 3 | 3 | 6 | 6 |
|  |  |  |  |  |

c)


|  | 2 | 1 | 2 | 2 |
| :--- | :--- | :--- | :--- | :--- |
| 4 | 8 | 4 | 8 | 8 |
|  |  |  |  |  |

d)


|  | 1 | 0 | 4 | 4 |
| :--- | :--- | :--- | :--- | :--- |
| 2 | 2 | 0 | 8 | 8 |
|  |  |  |  |  |

2) Use the number cards below to generate your own 4-digit number and complete the division questions, using the formal method. Cards can be used as many times as necessary.
a) Divisor $=2$
2


Various answers e.g.

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


|  | 4 | 0 | 2 | 1 |
| :--- | :--- | :--- | :--- | :--- |
| 2 | 8 | 0 | 4 | 2 |
|  |  |  |  |  |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 2 |  |  |  |  |
|  |  |  |  |  |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 2 |  |  |  |  |
|  |  |  |  |  |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 2 |  |  |  |  |
|  |  |  |  |  |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 2 |  |  |  |  |
|  |  |  |  |  |

b) Divisor $=3$


## Various answers e.g.

|  | 1 | 3 | 0 | 0 |
| :--- | :--- | :--- | :--- | :--- |
| 3 | 3 | 9 | 0 | 0 |
|  |  |  |  |  |


|  | 2 | 1 | 1 | 0 |
| :--- | :--- | :--- | :--- | :--- |
| 3 | 6 | 3 | 3 | 0 |
|  |  |  |  |  |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 3 |  |  |  |  |
|  |  |  |  |  |

1) Identify the numbers represented in the place value chart and complete the division, using the formal method.
a)

| 9936 |  |  |
| :--- | :--- | :--- |
| 3312 | 3312 | 3312 |


|  | 3 | 3 | 1 | 2 |
| :--- | :--- | :--- | :--- | :--- |
| 3 | 9 | 9 | 3 | 6 |
|  |  |  |  |  |

b)

| 4084 |  |  |  |
| :--- | :--- | :--- | :--- |
| 1021 | 1021 | 1021 | 1021 |


|  | 1 | 0 | 2 | 1 |
| :--- | :--- | :--- | :--- | :--- |
| 4 | 4 | 0 | 8 | 4 |
|  |  |  |  |  |

c)

| 2446 |  |
| :---: | :---: |
| 1223 | 1223 |


|  | 1 | 2 | 2 | 3 |
| :--- | :--- | :--- | :--- | :--- |
| 2 | 2 | 4 | 4 | 6 |
|  |  |  |  |  |

d)

| 6093 |  |  |
| :--- | :--- | :--- |
| 2031 | 2031 | 2031 |


|  | 2 | 0 | 3 | 1 |
| :--- | :--- | :--- | :--- | :--- |
| 3 | 6 | 0 | 9 | 3 |
|  |  |  |  |  |

2) Use the number cards below to generate your own 4-digit number and complete the division questions, using the formal method. Cards can be used as many times as necessary.
a) Divisor $=2$
2

0

## Various answers e.g.

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


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 2 |  |  |  |  |
|  |  |  |  |  |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 2 |  |  |  |  |
|  |  |  |  |  |

a) Divisor $=3$


Various answers e.g.

|  | 2 | 1 | 1 | 3 |
| :--- | :--- | :--- | :--- | :--- |
| 3 | 6 | 3 | 3 | 9 |
|  |  |  |  |  |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 3 |  |  |  |  |
|  |  |  |  |  |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 3 |  |  |  |  |
|  |  |  |  |  |

a) Divisor $=4$


Various answers e.g.

|  | 1 | 2 | 0 | 1 |
| :--- | :--- | :--- | :--- | :--- |
| 4 | 4 | 8 | 0 | 4 |
|  |  |  |  |  |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 4 |  |  |  |  |
|  |  |  |  |  |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 4 |  |  |  |  |
|  |  |  |  |  |

1) 

|  | $\mathbf{4}$ | $\mathbf{4}$ | $\mathbf{3}$ | $\mathbf{2}$ |
| :--- | :--- | :--- | :--- | :--- |
| 3 | 9 | 0 | 3 | 6 |

a) 8 thousands divided by 2 is equal to 4 thousands.
b) 8 hundreds divided by 2 is equal to $\mathbf{4}$ hundreds.
c) 6 tens divided by 2 is equal to 3 tens.
d) $\mathbf{4}$ ones divided by 2 is equal to $\mathbf{2}$ ones.
2)
a) $8404 \div 2=4202$
b) $9036 \div 3=\mathbf{3 0 1 2}$
c) $8404 \div 4=\mathbf{2 1 0 1}$
d) $3693 \div 3=1231$
1)
a) $2044 \div 2<6063 \div 3$
b) $2048 \div 2>4048 \div 4$
c) $3069 \div 3=2046 \div 2$
2) Liza is incorrect because she has grouped the place value counters into groups of $\mathbf{2}$ but not counted how many groups there are. Solved correctly the question would be:
$8068 \div 2=4034$
4000 as in 4 groups of 2 thousands
30 as in three groups of 2 tens
4 as in 4 groups of 2 ones
3) The place value chart shows:

|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 3 | 9 | 0 | 6 | 5 |

a) The counter missing is a ' 1 ' - this makes the number 9066
b)

|  | $\mathbf{3}$ | $\mathbf{0}$ | $\mathbf{2}$ | $\mathbf{2}$ |
| :--- | :--- | :--- | :--- | :--- |
| 3 | 9 | 0 | 6 | 6 |

$9066 \div 3=3022$

1) Varying answers are possible. For example
a) $8048 \div 4=6036 \div 3$
$8048 \div 4=2012$ and $6036 \div \mathbf{3}=\mathbf{2 0 1 2}$
b) $8848 \div 4<6936 \div 3$
$8848 \div 4=2212$ and $6936 \div 3=2312$
OR
$8448 \div 4<6636 \div 3$
$8448 \div 4=2112$ and $6636 \div 3=2212$
c) $8484 \div 4>6036 \div 3$
$8484 \div 4=2121$ and $6036 \div 3=2012$
OR
$8404 \div 4>6006 \div 3$
$8404 \div 4=2101$ and $6006 \div 3=2002$
2) Total prize money:
£8100 $\mathbf{+}$ £1530 = £9630
$\mathbf{£ 9 6 3 0} \div \mathbf{3}=\mathbf{£ 3 2 1 0}$
3) $£ 6603 \div 3=£ 2201$
£8404 $\div 4=£ 2101$
It would be better to buy the set of four because it's cheaper per piece of equipment.
4) Circle the groups on the place value chart to help you complete the sentences.

Then solve the question using the formal method.


a) $\square$
thousands divided by 2 is equal to $\square$ thousands.
b)
 hundreds.
c) $\square$ tens divided by 2 is equal to $\square$ tens.
d) $\square$ ones divided by 2 is equal to $\square$ ones.
2) Complete the following divisions using the formal method. Use a place value chart to help.
a)

b)

c)

d)

3) Find the missing numbers in the bar model, setting out your work in the formal method.

| 6648 |  |
| :--- | :--- |
|  |  |



1) Complete the following, using < > or = to make each statement true.

2) Liza has been using a place value grid to help her complete a division question. Is she correct? Give your reasoning.


$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
3) A place value counter has fallen from one of the columns.
a) Can you work out which column it has fallen from to make the number divisible by 3?
b) Complete the division and explain your answer.


|  |  |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
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1) Complete the comparison statement, using a number card to make the statement true.

You may use each number card more than once per question if you wish.

a) 8

$48 \div 4$ $\square$ 60 $\square$ $6 \div 3$
b) $8 \square$ $48 \div 4$

6

$36 \div 3$
c) $84 \square 4 \div 4 \square$

60 $\square$ $6 \div 3$ $\square$
2) Mrs Hawkins receives $£ 8100$ as prize money from a competition. Her partner receives $£ 1530$ as a runner up in the same competition. They decide to split the total prize money equally between their three children. How much does each child receive?


|  |  |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
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3) A charity wants to buy new climbing frames for local youth groups. A shop sells a set of three climbing frames for $£ 6603$. A catalogue sells a set of four climbing frames for $£ 8400$. Where should the charity buy from to get the best deal? Explain why.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
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1) Circle the groups on the place value chart to help you complete the sentences. Then solve the question using the formal method.


$$
8864 \div 2=\square
$$

a) $\square$ thousands divided by 2 is equal to $\square$ thousands.
b) $\square$ hundreds divided by 2 is equal to $\square$ hundreds.
c) $\square$ tens divided by 2 is equal to $\square$ tens.
d) $\square$ ones divided by 2 is equal to $\square$ ones.
2) Complete the following divisions using the formal method. Use a place value chart to help.

3) Find the missing numbers in the bar model, setting out your work in the formal method.


1) Circle the groups on the place value chart to help you complete the sentences. Then solve the question using the formal method.
(200s

$$
8864 \div 2=\square
$$

a) $\square$ thousands divided by 2 is equal to $\square$ thousands.
b) $\square$ hundreds divided by 2 is equal to $\qquad$ hundreds. c) $\square$ tens divided by 2 is equal to $\square$ tens.
d) $\square$ ones divided by 2 is equal to $\square$ ones.
2) Complete the following divisions using the formal method. Use a place value chart to help.

3) Find the missing numbers in the bar model, setting out your work in the formal method.


1) Complete the following, using < > or = to make each statement true.
a) $2044 \div 2$ $\square$ $6063 \div 3$
b) $2048 \div 2$ $\square$ $4048 \div 4$
c) $3069 \div 3$ $\square$ $2046 \div 2$
2) Liza has been using a place value grid to help her complete a division question. Is she correct? Give your reasoning.

$8068 \div 2=2022$ because in each group there are 2 thousands, 2 hundreds and 2 ones.

Liza

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

3) A place value counter has fallen from one of the columns.
a) Can you work out which column it has fallen from to make the number divisible by 3?
b) Complete the division and explain your answer.

4) Complete the following, using < > or = to make each statement true.
a) $2044 \div 2 \square 6063 \div 3$
b) $2048 \div 2 \square 4048 \div 4$
c) $3069 \div 3 \square 2046 \div 2$
5) Liza has been using a place value grid to help her complete a division question. Is she correct? Give your reasoning.

$8068 \div 2=2022$ because in each group there are 2 thousands, 2 hundreds and 2 ones.

Liza

3) A place value counter has fallen from one of the columns.
a) Can you work out which column it has fallen from to make the number divisible by 3 ?
b) Complete the division and explain your answer.


1) Complete the comparison statement, using a number card to make the statement true. You may use each number card more than
 once per question if you wish.
a) $8 \square 48 \div 4 \square 60 \square 6 \div 3$
b) $\square$ $48 \div 4$ $\square$ 6 $36 \div 3$
c) 84 $\square$ $4 \div 4$ $\square$ $60 \square 6 \div 3$

2) Mrs Hawkins receives $£ 8100$ as prize money from a competition. Her partner receives $£ 1530$ as a runner up in the same competition. They decide to split the total prize money equally between their three children. How much does each child receive?

3) A charity wants to buy new climbing frames for local youth groups. A shop sells a set of three climbing frames for $£ 6603$. A catalogue sells a set of four climbing frames for $£ 8400$. Where should the charity buy from to get the best deal? Explain why.

4) Complete the comparison statement, using a number card to make the statement true. You may use each number card more than once per question if you wish.
a) 8 $\qquad$ $48 \div 4$ $\qquad$ 60 $\qquad$ $6 \div 3$
b) 8 $\square$ $48 \div 4$ $\square$ 6 $\square$ $36 \div 3$
c)
) 84 $\square$ $4 \div 4$ $\square$ 60 $\square$ $6 \div 3$

## 0


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## Blank ThHTO Place Value Chart

| Th <br> Thousands | H <br> Hundreds | T <br> Tens | O <br> Ones |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
|  |  |  |  |

