Year 5 Maths Home Learning Pack
Week Commencing Monday 4th May 2020
Hello year 5! In this maths pack you will find five different activities for the week. Please complete the activities in the order given as they follow a learning journey. We hope you enjoy them!

This week you are going to be learning about decimals, fractions and percentages. Please follow the link to access a guided teaching video for each lesson. We are following Summer Term - Week 2. If you are unable to access the videos, please see the ‘guidance sheets for each lesson’.  

https://whiterosemaths.com/homelearning/year-5/

Summer Term
1. Week 2 Lesson 1 - Adding decimals with the same number of decimal places (Guidance Sheet, Activity Sheet and Answers)
2. Week 2 Lesson 2 - Subtracting decimals with the same number of decimal places (Guidance Sheet, Activity Sheet and Answers)
3. Week 2 Lesson 3 - Adding decimals with with a different number of decimal places (Guidance Sheet, Activity Sheet and Answers)
4. Week 2 Lesson 4 - Subtracting decimals with with a different number of decimal places (Guidance Sheet, Activity Sheet and Answers)
5. Week 2 Lesson 5 - Goody Bag Friday (Activity Sheet and Answers)
Lesson 1 -

\[
7.75 + 2.46 = 10.21
\]

\[
\begin{array}{|c|c|c|c|}
\hline
\text{Tens} & \text{Ones} & \text{Tenths} & \text{Hundredths} \\
\hline
7 & 7 & 5 & \\
\hline
2 & 4 & 6 & \\
\hline
\end{array}
\]

\[
3.108 + 2.154 = 5.262
\]

\[
\begin{array}{|c|c|c|c|c|}
\hline
\text{Tens} & \text{Ones} & \text{Tenths} & \text{Hundredths} & \text{Thousandths} \\
\hline
3 & 1 & 0 & 8 & \\
\hline
2 & 1 & 5 & 4 & \\
\hline
\end{array}
\]
What is the shape’s perimeter?

A 3 cm  B 8 cm
C 12 cm  D 16 cm

Perimeter = 16 cm

6 cm + 6 cm + 2 cm + 2 cm = 16 cm
6 cm × 2 + 2 cm × 2 = 16 cm
Adding decimals with the same number of decimal places

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

   a) \(4.45 + 3.21 = \) 

<table>
<thead>
<tr>
<th>Ones</th>
<th>Tenths</th>
<th>Hundredsths</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>+</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>7</td>
<td>6</td>
<td>1</td>
</tr>
</tbody>
</table>

   b) \(4.45 + 3.61 = \) 

<table>
<thead>
<tr>
<th>Ones</th>
<th>Tenths</th>
<th>Hundredsths</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>+</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>7</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

   c) \(4.45 + 3.78 = \) 

<table>
<thead>
<tr>
<th>Ones</th>
<th>Tenths</th>
<th>Hundredsths</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>+</td>
<td>3</td>
<td>7</td>
</tr>
<tr>
<td>7</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

Which calculation was easier? Talk about it with a partner.

2. Use the column method to work out the additions.

   a) \(5.3 + 2.5 = \) 

   b) \(6.03 + 3.91 = \) 

   c) \(2.32 + 1.017 = \) 

   d) \(6.37 + 3.78 = \) 

   e) \(3.102 + 5.876 = \) 

   f) \(1.203 + 9.227 = \) 

   g) \(5.75 + 5.32 = \) 

   h) \(1.499 + 1.237 = \)
3. Work out the calculations.
   Write <, > or = to make the statements correct.
   
   a) \[ 0.64 + 4.79 \quad \bigcirc \quad 5.01 + 0.23 \]
   b) \[ 7.427 + 3.238 \quad \bigcirc \quad 5.427 + 5.832 \]
   c) \[ 3.08 + 4.63 \quad \bigcirc \quad 4.84 + 2.87 \]

4. Teddy is working out the total cost of these items.
   £11.20
   £5.75

   Here are his workings.
   \[
   \begin{array}{c}
   5 \times 7.5 \\
   + 1120 \\
   \hline
   6870
   \end{array}
   \]

   Talk to a partner about Teddy's mistake.
   Work out the correct answer.

5. Work out the perimeter of the shape.
   
   \[ \text{perimeter} = \quad \text{cm} \]
   
6. Complete the number line.
   
   \[ 3.65 + 1.78 + 1.78 + 1.78 \]

7. Eva starts with the number 1.62
   
   I added a number and got 2.8
   
   This is impossible as 2.8 only has one digit after the decimal
   
   Is Rosie correct? __________
   
   Talk about it with a partner.
Adding decimals with the same number of decimal places

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

   a) 4.45 + 3.21 =

   
   
   
   
   
   
   

   b) 4.45 + 3.61 =

   
   
   
   
   
   

   c) 4.45 + 3.78 =

   
   
   
   
   

Which calculation was easier? Talk about it with a partner.

2. Use the column method to work out the additions.

   a) 5.3 + 2.5 =

   b) 6.03 + 3.91 =

   c) 2.32 + 1.017 =

   d) 6.37 + 3.78 =

   e) 3.102 + 5.876 =

   f) 1.203 + 9.227 =

   g) 5.75 + 5.32 =

   h) 1.499 + 1.237 =
3 Work out the calculations.
Write <, > or = to make the statements correct.

a) $0.64 + 4.79 \quad > \quad 5.01 + 0.23$

b) $7.427 + 3.238 \quad < \quad 5.427 + 5.832$

c) $3.08 + 4.63 \quad = \quad 4.84 + 2.87$

4 Teddy is working out the total cost of these items.

![Items and prices]

Here are his workings.

\[
\begin{array}{c}
575 \\
+ 1120 \\
\hline
6870
\end{array}
\]

Talk to a partner about Teddy's mistake.
Work out the correct answer.

5 Work out the perimeter of the shape.

\[
\begin{align*}
&4.5 \text{ cm} \\
&9.3 \text{ cm} \\
&15 \text{ cm} \\
&5.3 \text{ cm}
\end{align*}
\]

Perimeter = $27.6 \text{ cm}$

6 Complete the number line.

\[
\begin{align*}
3.65 + 1.78 + 1.78 + 1.78 & = 8.99
\end{align*}
\]

7 Eva starts with the number 1.62

Eva: I added a number and got 2.8
Rosie: This is impossible as 2.8 only has one digit after the decimal.

Is Rosie correct? No
Talk about it with a partner.
Lesson 2 -

\[ 23.51 - 21.36 = \]

\[
\begin{array}{cccc}
\text{Tens} & \text{Ones} & \text{Tenths} & \text{Hundredths} \\
\hline
2 & 3 & 5 & 1 \\
2 & 1 & 3 & 6 \\
\end{array}
\]

1 tenth = 10 hundredths

\[ 23.51 - 21.36 = 2.15 \]

\[
\begin{array}{cccc}
\text{Tens} & \text{Ones} & \text{Tenths} & \text{Hundredths} \\
\hline
2 & 3 & 4 & 1 \\
2 & 1 & 3 & 6 \\
0 & 2 & 1 & 5 \\
\end{array}
\]
How much more does the bag of apples cost than the bunch of bananas?

\[
\begin{array}{c}
\text{Apples} & \text{£1.63} \\
\text{Bananas} & \text{£1.18}
\end{array}
\]

\[
\begin{array}{|c|c|c|}
\hline
1 & 6 & 3 \\
\hline
1 & 1 & 8 \\
\hline
\end{array}
\]

\[
\begin{array}{c}
\text{Apples} & \text{£1.63} \\
\text{Bananas} & \text{£1.18}
\end{array}
\]

\[
\begin{array}{|c|c|c|}
\hline
1 & 5 & 6 \\
\hline
1 & 1 & 8 \\
0 & 4 & 5 \\
\hline
\end{array}
\]

What is the difference between A and B?

\[
\begin{array}{c}
4 & 0 & 0 \\
4 & 3 & 7 & 9 & 7 \\
\hline
0 & 3 & 2 & 1 & 6
\end{array}
\]

Have a go
1. Use a place value chart and counters to help you complete the subtractions.

<table>
<thead>
<tr>
<th>Tens</th>
<th>Ones</th>
<th>Tenths</th>
<th>Hundredths</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
</tr>
</tbody>
</table>

a) 14.83 – 12.12 = ____________
b) 14.83 – 12.14 = ____________
c) 14.83 – 12.92 = ____________
d) 14.83 – 12.94 = ____________

2. Complete the sentences.

1 ten can be exchanged for ____________ ones.
1 one can be exchanged for ____________ tenths.
1 tenth can be exchanged for 10 ____________.

3. Annie is calculating 2.42 – 1.17 using the column method. She uses a place value chart to help her.

\[
\begin{array}{ccc}
\text{Ones} & \text{Tenths} & \text{Hundredths} \\
\hline
1 & 4 & 2 \\
- & 1 & 1 \\
\hline
1 & 2 & 5 \\
\end{array}
\]

How does the place value chart support the column method? Talk about it with a partner.

4. Complete the column subtractions.

a) \[
\begin{array}{c}
5 + 6 + 4 \\
- 3 + 1 + 2 \\
\hline
\end{array}
\]

b) \[
\begin{array}{c}
5 + 6 + 4 \\
- 3 + 1 + 5 \\
\hline
\end{array}
\]

c) \[
\begin{array}{c}
8 + 0 + 9 \\
- 3 + 8 + 1 \\
\hline
\end{array}
\]

d) \[
\begin{array}{c}
1 + 2 + 0 + 2 \\
- 1 + 1 + 3 + 8 \\
\hline
\end{array}
\]
5 Whitney has £8.52
She buys this comic.
How much money does she have left?

RoboBoy
£3.25

£

6 Here are some items for sale in a shop.

<table>
<thead>
<tr>
<th>Item</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bag</td>
<td>£2.27</td>
</tr>
<tr>
<td>Headset</td>
<td>£9.10</td>
</tr>
<tr>
<td>Scarf</td>
<td>£4.91</td>
</tr>
<tr>
<td>Bagcharm</td>
<td>£1.09</td>
</tr>
</tbody>
</table>

a) How much more does a scarf cost than a bag of marbles?

£

b) Esther has £15.31
She buys a pair of headphones and a bag of marbles.
How much money does she have left?

£

c) Tom has £7.01
He buys one item and has £5.92 left.
What did he buy?

Tom bought ____________.

7 Ron and Dora are doing a sponsored walk.
Ron walks 3.12 miles.
Dora walks 5.49 miles.
How much further does Dora walk than Ron?
Dora walks _______ miles further than Ron.

8 Tammy has three pieces of string.
- The first piece is 0.78 m long.
- The second piece is 0.24 m shorter than the first piece.
- The third piece is 0.07 m shorter than the second piece.
What is the total length of all three pieces of string?
Give your answer in metres and centimetres.

m and cm

9 A, B and C are points on a number line.

A | 118.75
B | 159.72
C | 186.34

How much greater is the difference between A and C than the difference between B and C?

Compare methods with a partner.
Subtracting decimals with the same number of decimal places

1. Use a place value chart and counters to help you complete the subtractions.

<table>
<thead>
<tr>
<th>Tens</th>
<th>Ones</th>
<th>Tenths</th>
<th>Hundredths</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>5</td>
<td>3</td>
<td>3</td>
<td>3</td>
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<tr>
<td>1</td>
<td>2</td>
<td>4</td>
<td>5</td>
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<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
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<td>1</td>
<td>5</td>
<td>5</td>
<td>5</td>
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<tr>
<td>5</td>
<td>3</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

a) \(14.83 - 12.12 = 2.71\)

c) \(14.83 - 12.92 = 1.91\)

b) \(14.83 - 12.14 = 2.69\)

d) \(14.83 - 12.94 = 1.89\)

e) Which calculation was easier? Talk about it with a partner.
f) What happens when you don’t have enough counters in a column to take away?

You need to make an exchange.

2. Complete the sentences.

1 ten can be exchanged for \(\boxed{10}\) ones.

1 one can be exchanged for \(\boxed{10}\) tenths.

1 tenth can be exchanged for \(\boxed{10}\) hundredths.

3. Annie is calculating \(2.42 - 1.17\) using the column method.

She uses a place value chart to help her.

<table>
<thead>
<tr>
<th>Ones</th>
<th>Tenths</th>
<th>Hundredths</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>.4</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>.1</td>
<td>7</td>
</tr>
<tr>
<td>1</td>
<td>.2</td>
<td>5</td>
</tr>
</tbody>
</table>

How does the place value chart support the column method? Talk about it with a partner.

4. Complete the column subtractions.

a) \[
\begin{array}{c}
5 \cdot 5 \cdot 4 \\
- \cdot 3 \cdot 1 \cdot 2 \\
\hline
\end{array}
\]

b) \[
\begin{array}{c}
5 \cdot 5 \cdot 4 \\
- \cdot 3 \cdot 1 \cdot 5 \\
\hline
2 \cdot 4 \cdot 9 \\
\end{array}
\]

c) \[
\begin{array}{c}
8 \cdot 10 \cdot 9 \\
- \cdot 3 \cdot 8 \cdot 1 \\
\hline
4 \cdot 2 \cdot 8 \\
\end{array}
\]

d) \[
\begin{array}{c}
1 \cdot 4 \cdot 2 \\
- \cdot 1 \cdot 1 \cdot 3 \cdot 8 \\
\hline
0 \cdot 0 \cdot 6 \cdot 4 \\
\end{array}
\]
5 Whitney has £8.52
She buys this comic.
How much money does she have left?

Ron and Dora are doing a sponsored walk.
Ron walks 3.12 miles.
Dora walks 5.49 miles.
How much further does Dora walk than Ron?
Dora walks 2.37 miles further than Ron.

6 Here are some items for sale in a shop.

<table>
<thead>
<tr>
<th>Item</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bag of marbles</td>
<td>£2.27</td>
</tr>
<tr>
<td>Headphones</td>
<td>£9.10</td>
</tr>
<tr>
<td>Scarf</td>
<td>£4.91</td>
</tr>
<tr>
<td>Bottle of soda</td>
<td>£1.09</td>
</tr>
</tbody>
</table>

a) How much more does a scarf cost than a bag of marbles?

b) Esther has £15.31
She buys a pair of headphones and a bag of marbles.
How much money does she have left?

c) Tom has £7.01
He buys one item and has £5.92 left.
What did he buy?

Tom bought a keyring.

8 Tommy has three pieces of string.
- The first piece is 0.78 m long.
- The second piece is 0.24 m shorter than the first piece.
- The third piece is 0.07 m shorter than the second piece.
What is the total length of all three pieces of string?
Give your answer in metres and centimetres.

1 m and 79 cm

9 A, B and C are points on a number line.

A: 118.76  B: 159.72  C: 186.34

How much greater is the difference between A and C than the difference between B and C?

Compare methods with a partner.
Lesson 3 -

2.5 + 3.16 = 5.66

\[ 2 \cdot 5 + 3 \cdot 1 \cdot 6 = 5 \cdot 6 \cdot 6 \]

1.04 + 25.12 = 41.16

1.604 + 25.12 = 41.16
Adding decimals with a different number of decimal places

1. Ron is adding 1.4 and 2.53.
   He makes each number with counters.

<table>
<thead>
<tr>
<th>Ones</th>
<th>Tenths</th>
<th>Hundredths</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

   a) What is the answer to Ron’s calculation? ____________
   b) Explain your method to a partner.
   c) Did you have to make an exchange? ____________

2. Work out the additions.
   a) 3.02 + 1.6
   b) 1.35 + 0.23
   c) 2.8 + 3.45
   d) 6.15 + 1.39

3. Filip is adding two numbers together.
   He writes it as a column addition.

   $\begin{array}{c}
   1 \ 3 \cdot 8 \\
   + 1 \ 9 \ 5 \\
   \hline
   3 \ 3 \ 3 \\
   \hline
   1 \ 1
   \end{array}$

   a) What mistake has Filip made?
   ___________________________________________________________________
   ___________________________________________________________________
   b) Use the column method to work out the correct answer.

4. Use the column method to work out the additions.
   a) 2.36 + 1.9
   b) 14.82 + 3.7
5 Use the column method to work out the additions.
   a) 0.59 + 11.9
   b) 77.34 + 1.82
   c) 0.591 + 1.73
   d) 3.2 + 1.84 + 0.931

6 Mr Hall drives from point A to point B, then on to point C.

   What is the total distance that Mr Hall drives?

   7 Here are four number cards.

   3.8  4.19  0.72  11.46

   a) What is the greatest total you can make by adding two of
     the numbers? Complete the calculation.

   [Blank]

   b) What is the sum of the four numbers?

   [Blank]

8 Work out the missing digits.

   a) _4.3 + 1_.37 = 39.67
   b) 4.8 + _._ = 12.65

9 The total mass of the two boxes is 10.85 kg.
What could the mass of each box be?

   [Blank] kg
   [Blank] kg

   How many answers can you find?
Adding decimals with a different number of decimal places

1. Ron is adding 1.4 and 2.53. He makes each number with counters.

<table>
<thead>
<tr>
<th>Ones</th>
<th>Tenths</th>
<th>Hundredths</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>● ●</td>
<td>● ● ● ● ●</td>
</tr>
<tr>
<td>● ●</td>
<td>● ●</td>
<td></td>
</tr>
</tbody>
</table>

a) What is the answer to Ron’s calculation? 3.93
b) Explain your method to a partner.
c) Did you have to make an exchange? No

2. Work out the additions.

a)

\[
\begin{array}{c}
3.02 \\
+ 1.6 \\
\hline
4.62
\end{array}
\]

b)

\[
\begin{array}{c}
1.35 \\
+ 0.23 \\
\hline
1.58
\end{array}
\]

c)

\[
\begin{array}{c}
2.8 \\
+ 3.45 \\
\hline
6.25
\end{array}
\]

d)

\[
\begin{array}{c}
6.15 \\
+ 1.39 \\
\hline
7.54
\end{array}
\]

3. Filip is adding two numbers together. He writes it as a column addition.

\[
\begin{array}{c}
13.8 \\
+ 19.5 \\
\hline
33.3
\end{array}
\]

a) What mistake has Filip made?
He hasn’t correctly lined up his numbers in the column.

b) Use the column method to work out the correct answer.

\[
\begin{array}{c}
13.8 \\
+ 19.5 \\
\hline
33.3
\end{array}
\]

4. Use the column method to work out the additions.

a) 2.36 + 1.9

\[
\begin{array}{c}
2.36 \\
+ 1.9 \\
\hline
4.26
\end{array}
\]

b) 14.82 + 3.7

\[
\begin{array}{c}
14.82 \\
+ 3.7 \\
\hline
18.52
\end{array}
\]
5. Use the column method to work out the additions.

a) $0.59 + 1.19$

\[
\begin{array}{c}
0.59 \\
+ 1.19 \\
\hline
1.78
\end{array}
\]

b) $77.34 + 1.82$

\[
\begin{array}{c}
77.34 \\
+ 1.82 \\
\hline
79.16
\end{array}
\]

c) $0.591 + 1.73$

\[
\begin{array}{c}
0.591 \\
+ 1.73 \\
\hline
2.321
\end{array}
\]

d) $3.2 + 1.84 + 0.931$

\[
\begin{array}{c}
3.2 \\
+ 1.84 \\
\hline
5.04 \\
+ 0.931 \\
\hline
6.971
\end{array}
\]

6. Mr Hall drives from point A to point B, then on to point C.

What is the total distance that Mr Hall drives?

7. Here are four number cards.

\[
\begin{array}{c}
3.8 \\
4.19 \\
0.72 \\
11.46
\end{array}
\]

a) What is the greatest total you can make by adding two of the numbers? Complete the calculation.

\[11.46 + 4.19 = 15.65\]

b) What is the sum of the four numbers?

\[30.17\]

8. Work out the missing digits.

a) \[4.3 + 15.37 = 19.67\]  
b) \[4.85 + 7.8 = 12.65\]

9. The total mass of the two boxes is 10.85 kg.

What could the mass of each box be? Various answers.

\[
\begin{array}{c}
\_\_ \text{kg} \\
\_\_ \text{kg}
\end{array}
\]

How many answers can you find?
Lesson 4 -

3.18 - 1.6 =

<table>
<thead>
<tr>
<th>Ones</th>
<th>Tenths</th>
<th>Hundredths</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>.1</td>
<td>8</td>
</tr>
<tr>
<td>1</td>
<td>.6</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3.18 - 1.6 =

腱 one = 10 tenths

3.18 - 1.6 =

<table>
<thead>
<tr>
<th>Ones</th>
<th>Tenths</th>
<th>Hundredths</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>.1</td>
<td>8</td>
</tr>
<tr>
<td>1</td>
<td>.6</td>
<td></td>
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<tr>
<td></td>
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</tr>
</tbody>
</table>

腱 one = 10 tenths

3.18 - 1.6 = 1.58
72 - 227 =

<table>
<thead>
<tr>
<th>Ones</th>
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<tbody>
<tr>
<td>7</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

72 - 227 =

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</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>2</td>
<td>0</td>
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</table>

1 tenth = 10 hundredths

72 - 227 =

<table>
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<tr>
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</thead>
<tbody>
<tr>
<td>6</td>
<td>1</td>
<td>3</td>
</tr>
</tbody>
</table>

1 one = 10 tenths
\[13.94 - \underline{8.6} = 9.08\]

**Table:**

<table>
<thead>
<tr>
<th>Tens</th>
<th>Ones</th>
<th>Tenths</th>
<th>Hundredths</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>q</td>
<td>0</td>
<td>8</td>
</tr>
</tbody>
</table>

\[? - 6 \text{ hundredths} = 8 \text{ hundredths}\]

\[13.94 - \underline{8.6} = 9.08\]

**Table:**

<table>
<thead>
<tr>
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\[13.94 - \underline{8.6} = 9.08\]

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<tr>
<td></td>
<td>q</td>
<td>0</td>
<td>8</td>
</tr>
</tbody>
</table>

\[13 \text{ ones} - ? = 9 \text{ ones}\]

\[13 \text{ ones} - 4 \text{ ones} = 9 \text{ ones}\]
Subtracting decimals with a different number of decimal places

1. Use the place value chart to help you work out the subtractions.

<table>
<thead>
<tr>
<th>Ones</th>
<th>Tenths</th>
<th>Hundredths</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

   a) \[5.36 - 1.2\]
   b) \[5.36 - 3.5\]
   c) \[5.36 - 3.8\]
   d) \[5.36 - 4.7\]

2. Alex is using counters to help her work out 4.7 - 1.35

   I can’t do this as I don’t have any hundredths counters.

   Do you agree with Alex? ________________
   Talk about it with a partner.

3. Complete the subtractions.
   a) \[2.36 - 1.4\]
   b) \[6.15 - 3.8\]
   c) \[7.3 - 1.15\]
   d) \[2.4 - 3.12\]

4. Use the column method to work out the subtractions.
   a) \[13.59 - 1.82\]
   b) \[73.84 - 9.2\]
   c) \[5.6 - 1.39\]
   d) \[18.2 - 3.64\]
5 A plank of wood measures 2.6 m.  
A carpenter cuts a piece of wood from the plank that is 0.52 m long.  

\[ \text{2.6 m} \]

a) What is the length of the remaining plank?  

\[ \text{m} \]

b) The carpenter cuts a second piece of wood from the plank.  
She now has 0.3 m of the plank remaining.  
What is the length of the second piece of wood that she cut?  

\[ \text{m} \]

6 The mass of a bag of marbles is 54.3 g.  
These two marbles are removed from the bag.  

\[ 7.2 \text{ g} \quad 14.54 \text{ g} \]

What is the mass of the bag of marbles now?  

\[ \text{g} \]

7 Work out the missing digits.  
\[ \ldots - 2.5 = 10.81 \]

8 Use the column method to work out the subtractions.  
\[ \text{a) } 14 - 2.7 \quad \text{d) } 26 - 3.91 \]

\[ \text{b) } 8 - 3.65 \quad \text{e) } 25 - 3.842 \]

\[ \text{c) } 20 - 2.85 \quad \text{f) } 90 - 0.821 \]
Subtracting decimals with a different number of decimal places

1. Use place value counters to help you work out the subtractions.

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<td></td>
<td></td>
</tr>
</tbody>
</table>

   a) \[
   \begin{array}{c}
   \text{5} \cdot 3 \cdot 6 \\
   \text{4} \cdot 1 \cdot 6 \\
   \end{array}
   \]
   b) \[
   \begin{array}{c}
   \frac{5}{3} \cdot 6 \\
   \frac{1}{8} \cdot 6 \\
   \end{array}
   \]
   c) \[
   \begin{array}{c}
   \frac{7}{3} \cdot 6 \\
   \frac{0}{9} \cdot 6 \\
   \end{array}
   \]
   d) \[
   \begin{array}{c}
   \frac{2}{3} \cdot 6 \\
   \frac{1}{5} \cdot 6 \\
   \end{array}
   \]

2. Alex is using counters to help her work out 4.7 – 1.35

   I can't do this as I don't have any hundredths counters.

   Do you agree with Alex? No
   Talk about it with a partner.

3. Complete the subtractions.
   a) \[
   \begin{array}{c}
   \text{2} \cdot 3 \cdot 6 \\
   \text{1} \cdot 4 \\
   \text{0} \cdot 9 \cdot 6 \\
   \end{array}
   \]
   b) \[
   \begin{array}{c}
   \text{5} \cdot 1 \cdot 5 \\
   \text{3} \cdot 8 \\
   \text{2} \cdot 3 \cdot 5 \\
   \end{array}
   \]
   c) \[
   \begin{array}{c}
   \text{7} \cdot 3 \cdot 0 \\
   \text{1} \cdot 1 \cdot 5 \\
   \text{6} \cdot 1 \cdot 5 \\
   \end{array}
   \]
   d) \[
   \begin{array}{c}
   \text{2} \cdot 4 \cdot 0 \\
   \text{3} \cdot 1 \cdot 2 \\
   \text{2} \cdot 1 \cdot 2 \\
   \end{array}
   \]

4. Use the column method to work out the subtractions.
   a) \[
   \begin{array}{c}
   \text{12.59} \text{ - 1.82} \\
   \text{10.77} \\
   \end{array}
   \]
   b) \[
   \begin{array}{c}
   \text{73.84} \text{ - 9.2} \\
   \text{64.64} \\
   \end{array}
   \]
   c) \[
   \begin{array}{c}
   \text{5.6} \text{ - 1.39} \\
   \text{4.21} \\
   \end{array}
   \]
   d) \[
   \begin{array}{c}
   \text{18.2} \text{ - 3.64} \\
   \text{14.56} \\
   \end{array}
   \]
5. A plank of wood measures 2.6 m.
   A carpenter cuts a piece of wood from the plank that is 0.52 m long.
   \[ \text{2.6 m} \]
   a) What is the length of the remaining plank?
   \[ \text{2.08 m} \]
   b) The carpenter cuts a second piece of wood from the plank.
   She now has 0.3 m of the plank remaining.
   What is the length of the second piece of wood that she cut?
   \[ \text{1.78 m} \]

6. The mass of a bag of marbles is 54.3 g.
   These two marbles are removed from the bag.
   \[ \text{7.2 g} \quad \text{14.54 g} \]
   What is the mass of the bag of marbles now?
   \[ \text{32.56 g} \]

7. Work out the missing digits.
   \[ 1\underline{3}.4 - 2.5\underline{9} = 10.81 \]

8. Use the column method to work out the subtractions.
   a) \[ 1\underline{4} - 2.7 \]
   \[ \begin{array}{c}
       14.0 \\
       - 2.7 \\
       \hline
       11.3 
   \end{array} \]
   d) \[ 26 - 3.91 \]
   \[ \begin{array}{c}
       26.0 \\
       - 3.91 \\
       \hline
       22.09 
   \end{array} \]
   b) \[ 8 - 3.65 \]
   \[ \begin{array}{c}
       8.00 \\
       - 3.65 \\
       \hline
       4.35 
   \end{array} \]
   e) \[ 25 - 3.842 \]
   \[ \begin{array}{c}
       25.000 \\
       - 3.842 \\
       \hline
       21.158 
   \end{array} \]
   c) \[ 20 - 2.85 \]
   \[ \begin{array}{c}
       20.000 \\
       - 2.85 \\
       \hline
       17.15 
   \end{array} \]
   f) \[ 90 - 0.821 \]
   \[ \begin{array}{c}
       90.000 \\
       - 0.821 \\
       \hline
       89.179 
   \end{array} \]
Goody Bag Friday -

Geoff buys the following items.

He starts with £200

How much does he have left once he has bought everything?


does he have left once he has bought everything?

15.6 + A = 50
B + 39.1 = 50
A + B + C = 50

Work out 6.483 + 5.94

Here is a bar model.

Work out the value of the missing bar.
Geoff buys the following items.
He starts with £200
74.45

How much does he have left once he has bought everything?

<table>
<thead>
<tr>
<th>2</th>
<th>5</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>+</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>6</td>
<td>4</td>
</tr>
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</table>

<table>
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<th>5</th>
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Can you work out the missing digits in these calculations?

<table>
<thead>
<tr>
<th>3</th>
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<th>1</th>
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</tr>
<tr>
<td>3</td>
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<td>2</td>
</tr>
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</table>

15.6 + A = 50
B + 39.1 = 50
A + B + C = 50

Work out the value of A, B and C.
A = 34.4
B = 10.9
C = 4.7

Here is a bar model.

Work out the value of the missing bar. 14.24