Warm up your brain!

What are the multiples of 12?

Can you say the 12 times table backwards?

Warm up your brain!

1) Add 0.45 to 0.85

2) What is 0.05 less than 0.71?

3) Which percentage is the same as $\frac{3}{5}$?

3.5%   30%   35%   60%

Answers

1) Add 0.45 to 0.85   1.3(0)

2) What is 0.05 less than 0.71?   0.66

3) Which percentage is the same as $\frac{3}{5}$?

   3.5%   30%   35%   60%   60%

LO: To revise adding decimals with a different place value

SC:

* I can identify the value of each decimal

* I can use a place value grid and counters to add decimals with different place values

* I can use a place value grid to work out missing values

What is the value of the underlined digit?

6.891

6.891

6.8<u>9</u>1
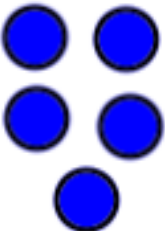
tenths

6.89<u>1</u>

thousandths

Copy the table and place the numbers on the grid by drawing counters (2.5 has been done as an example)
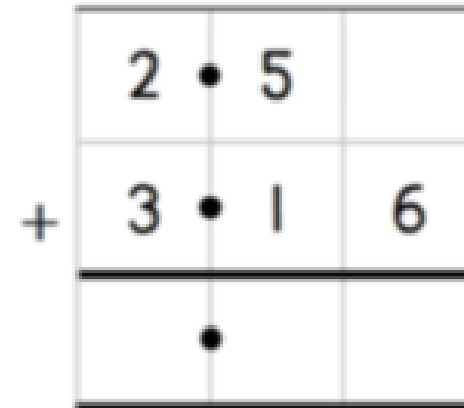
$$2.5 + 3.16 =$$
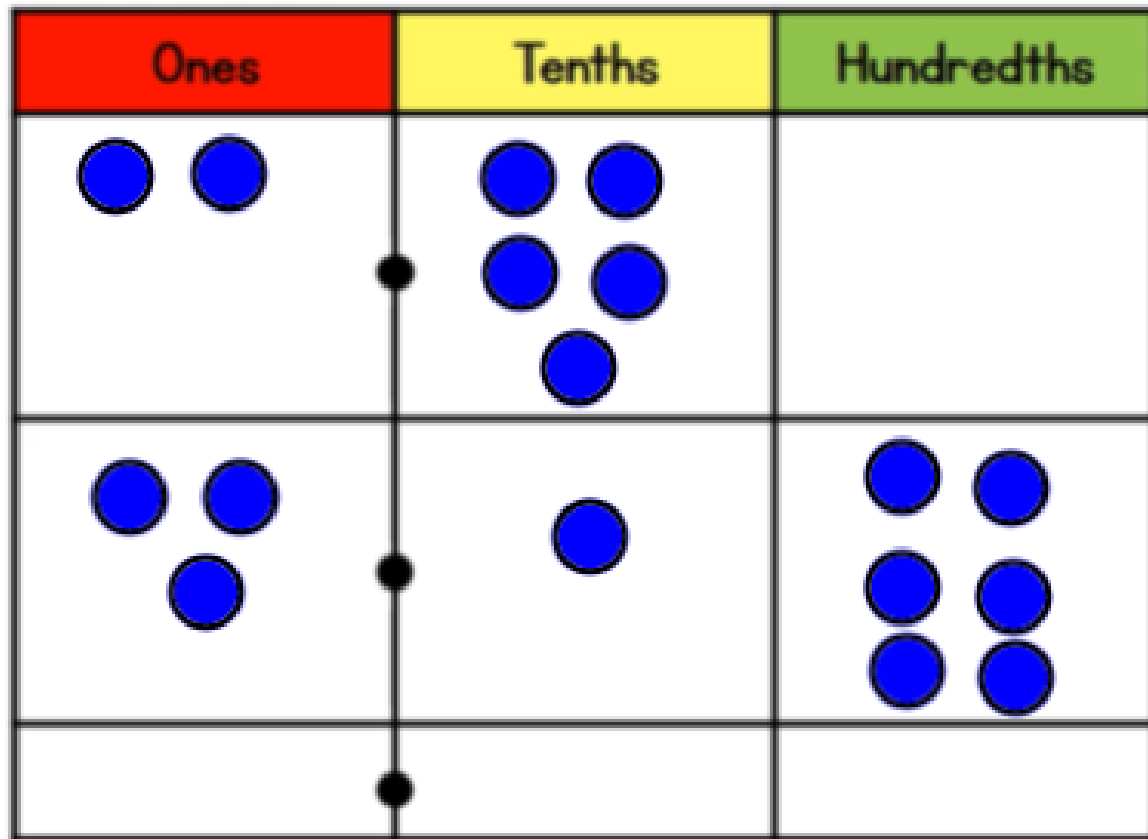
Ones	Tenths	Hundredths
● ●	● ● ● ● ●	

	2	•	5	
+	3	•	1	6
		•		

You don't have to work anything out yet!

$2.5 + 3.16 =$

Ones	Tenths	Hundredths
● ●	● ● ● ●	
● ● ●	●	● ● ● ● ● ●

$$
\begin{array}{r}
2.5 \\
+\ 3.16 \\
\hline
. \\
\end{array}
$$

Now, using the counters work out the question.

$2.5 + 3.16 =$

Ones	Tenths	Hundredths
● ●	● ● ● ● ●	
● ● ●	●	● ● ● ● ● ●
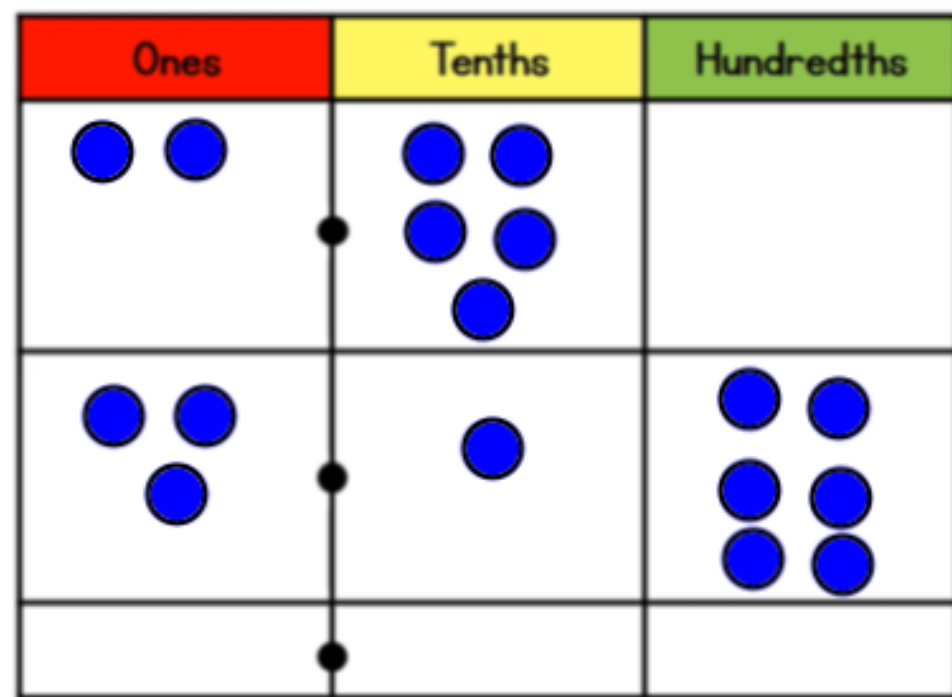
	2	•	5	
+	3	•	I	6
		•		

Start with the hundredths. zero hundredths + six hundredths =

ANSWER

$$2.5 + 3.16 = 5.66$$

Ones	Tenths	Hundredths
● ●	● ● ● ● ●	
● ● ●	●	● ● ● ● ● ●
5 •	6	6

2	•	5	
+ 3	•	1	6
5	•	6	6

The numbers below have been lined up incorrectly.

Copy the questions and line them up correctly!

$32.8 + 1.17 =$

3	2 •	8
+ 1	• 1	7

$534 + 5.34 =$

5	3	4
+ 5	• 3	4
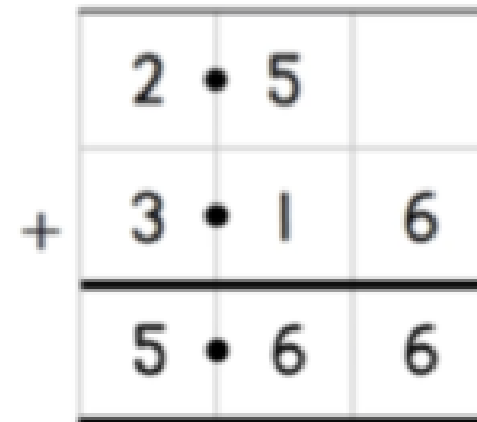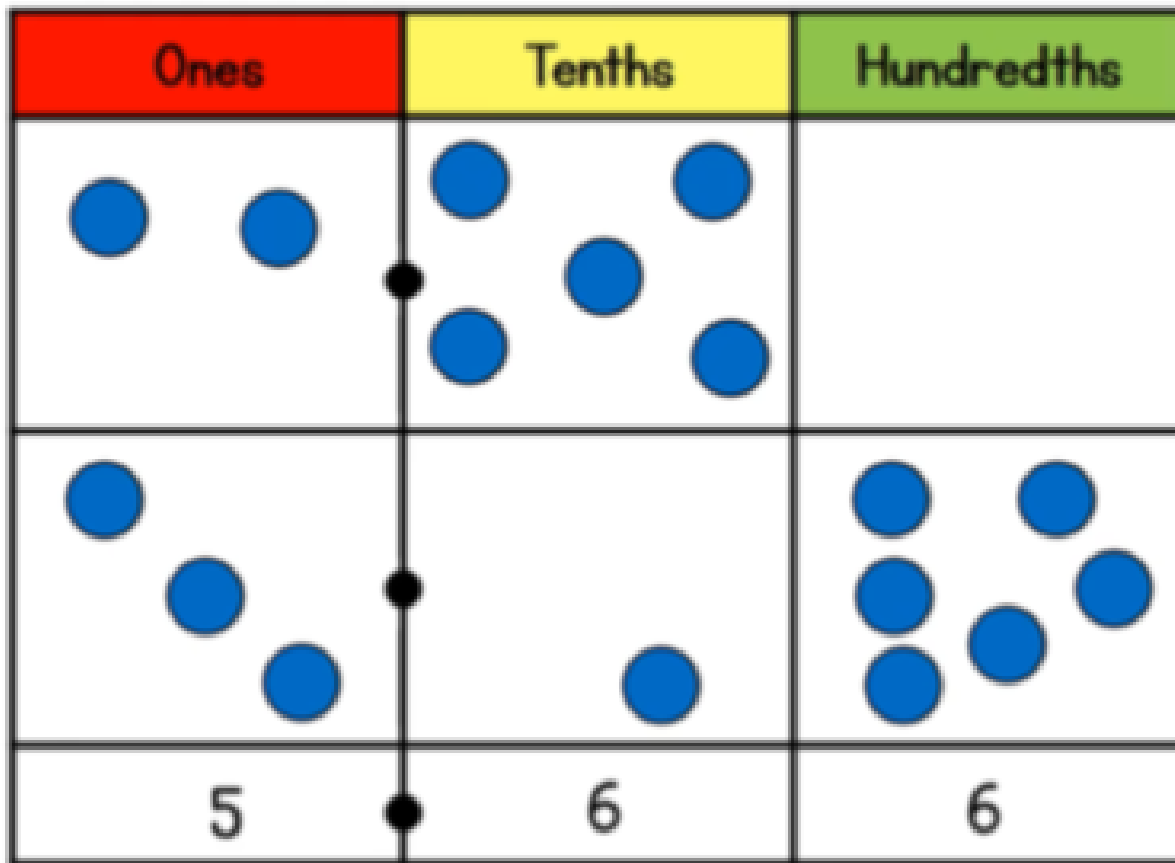
	3	2	.	8	
+		1	.	1	7
	3	3	.	9	7

	5	3	4	.		
+			5	.	3	4
	5	3	9	.	3	4

Copy and complete the place value grid to help find the missing digits
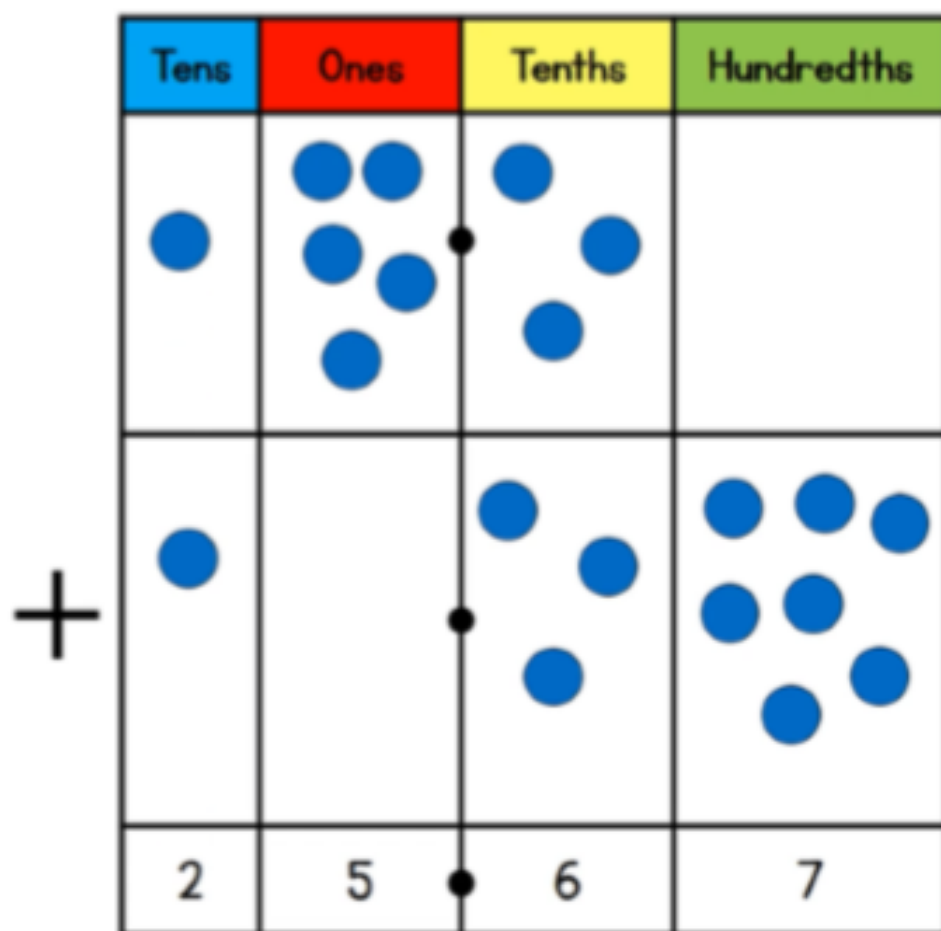
$\square 5.3 + \square.\square 7 = 25.67$

Add counters to help you work this out

Tens	Ones	Tenths	Hundredths
	●● ● ● ● ● ●	● ● ●	
+ ●			●●● ● ●● ● ● ●
2	5	6	7
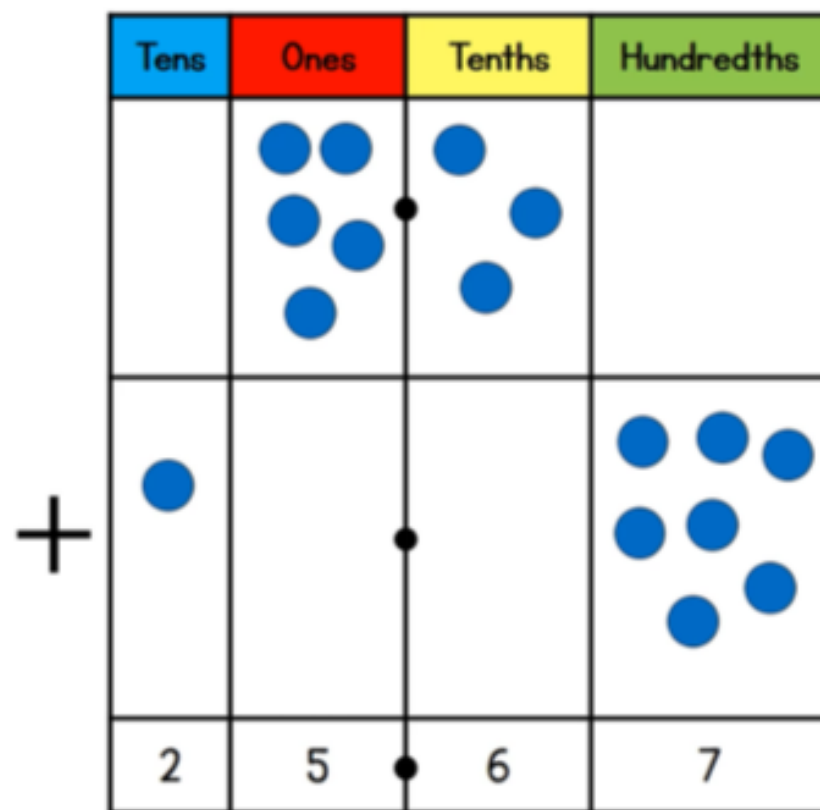
Start in the hundredths column. Do we need to add any numbers? No. Moving on to the tenths...

$$15.3 + 10.37 = 25.67$$

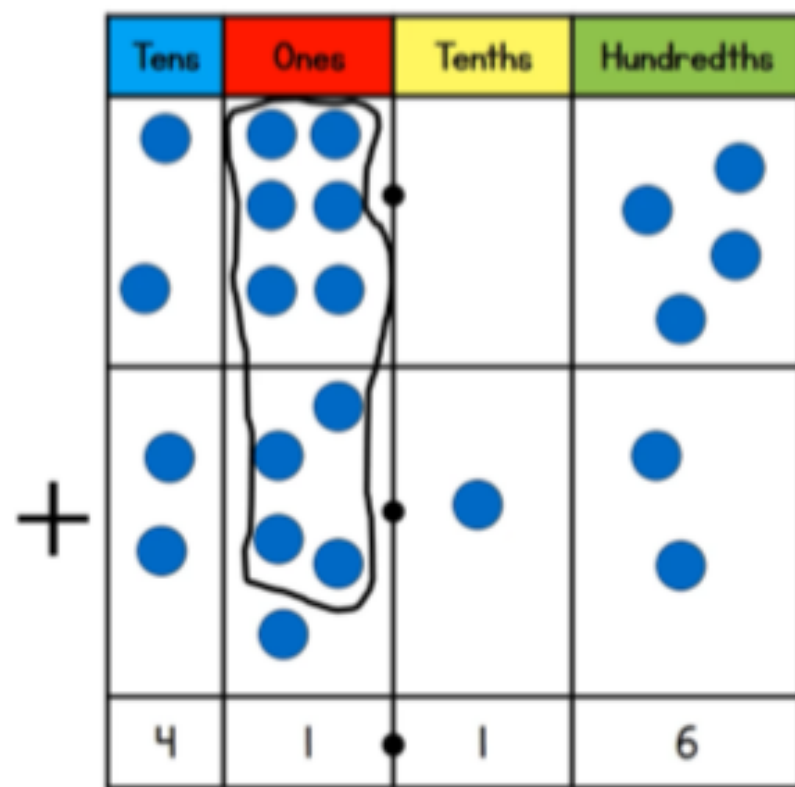| Tens	Ones	Tenths	Hundredths
2	5	6	7

+

Copy and complete the place value grid to help find the missing digits

$$1\square.04 + 25.1\square = 41.16$$

Tens	Ones	Tenths	Hundredths
4	1	1	6

+

$$16.04 + 25.12 = 41.16$$

Tens	Ones	Tenths	Hundredths

+

4	1	1	6

We added <u>6 ones</u> so that we could *exchange* <u>10 ones for 1 ten</u>.

Now use these methods to work out the questions. You can find a PDF of the question sheets in the file: Week 2 – Lesson 1 – Revision of adding decimal numbers.

Please try and answer as many questions as you can. Questions 1-5 are skill and reasoning. Questions 6 -9 are reasoning and problem solving. Everyone **should** answer questions **1**-**5** and can **attempt** questions **6-9**.

Adding decimals with a different number of decimal places

1 Ron is adding 1.4 and 2.53

He makes each number with counters.

Ones	Tenths	Hundredths
⚫	⚫⚫⚫⚫	
⚫⚫	⚫⚫⚫⚫⚫	⚫⚫⚫

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 · 0 2
+   1 · 6
```

b)

```
    1 3 · 5
+   0 · 2 3
```

c)

```
    2 · 8
+   3 · 4 5
```

d)

```
    6 · 1 5
+   1 3 · 9
```

3 Filip is adding two numbers together.

He writes it as a column addition.

```
    1 3 · 8
+   1 · 9 5
    3 · 3 3
    1   1
```

a) What mistake has Filip made?

_____

_____

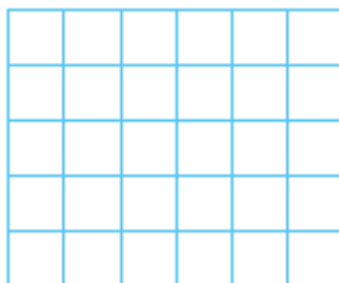b) Use the column method to work out the correct answer.

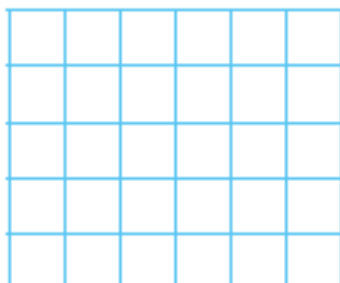**4** Use the column method to work out the additions.

a) 2.36 + 1.9

b) 14.82 + 3.7

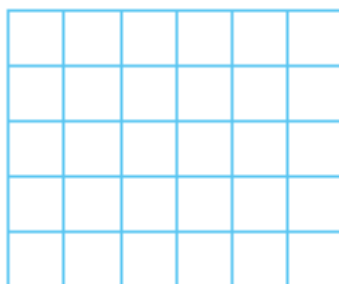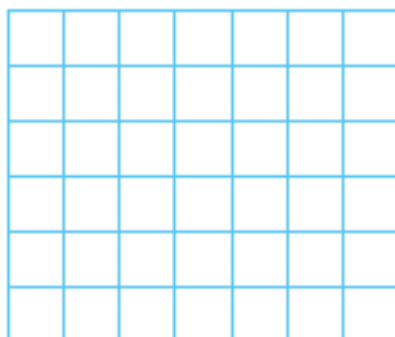**5** Use the column method to work out the additions.

a) 0.59 + 11.9

c) 0.591 + 1.73

b) 77.34 + 1.82

d) 3.2 + 1.84 + 0.931

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

103.6 km

72.5 km

B

C

A
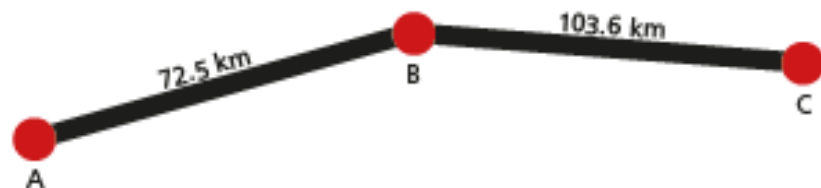
What is the total distance that Mr Hall drives?

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.

☐ + ☐ = ☐

b) What is the sum of the four numbers?

☐

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?

__.__ kg

__.__ __ kg

How many answers can you find?

Well done you have finished today's maths questions! ☺

Use the answer sheet to check your work (Week 2 – Lesson 1 – Revision of adding decimal numbers ANSWERS).