Warm up your brain!

Fill in the missing digits

$$56 \times 12 =$$

$$672 \div \_\_\_ = 12$$

Answers

Fill in the missing digits

$$56 \times 12 = 672$$

$$672 / 56 = 12$$

Warm up your brain!

1) Add together 0.3 and 0.5

2) Write $\frac{68}{200}$ as a percentage.

What is a percentage always out of?

3) Round 6.43 to the nearest tenth.

4) What number is 5 less than 2?

Answers

1) Add together 0.3 and 0.5 — 0.8

2) Write $\frac{68}{200}$ as a percentage. — 34%

3) Round 6.43 to the nearest tenth. — 6.4

4) What number is 5 less than 2? — -3

QUESTION 2:

68/200 = 34/100 = 34%

LO: To revise subtracting decimals with a different number of decimals

SC:

* I can identify the value of each decimal

* I can identify how many tenths there are in one hundredth and how many ones there are in one tenth

* I can use column subtraction and line the values up correctly to work out questions

Copy the table and place the numbers on the grid by drawing counters

6.73 − 1.3 =

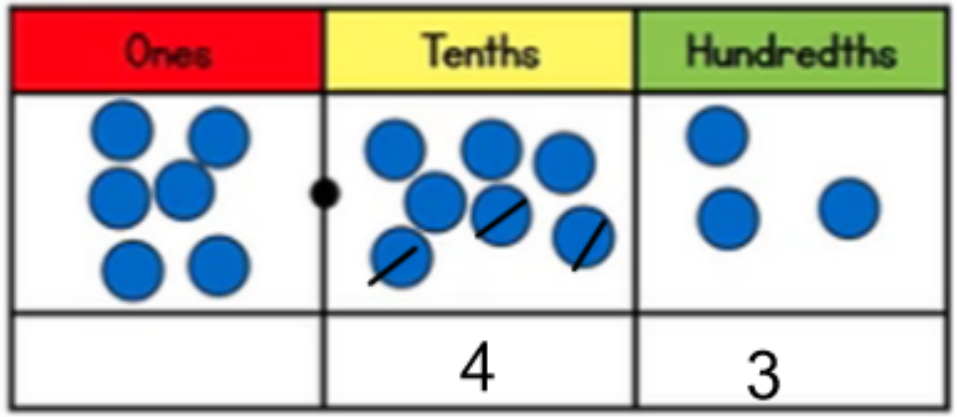
Ones	Tenths	Hundredths

	6	• 7	3
−	1	• 3	
		•	

You don't have to work anything out yet!

Working out the question

6.73 – 1.3 =

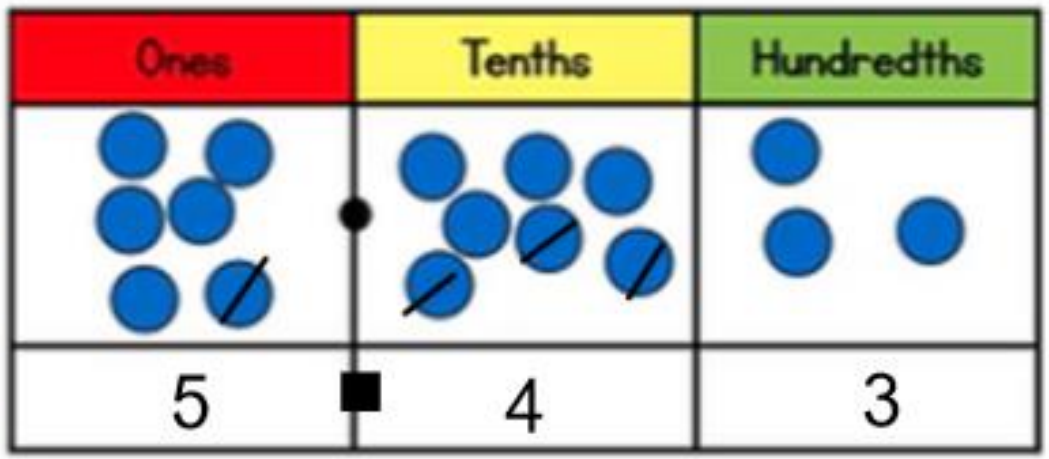


	6	• 7	3
–	1	• 3	
		•	

Now, cross off the counters to work out the answer. Start with the hundredths. Are there any hundredths in 1.3(0)? No.Then, how many tenths are we taking away? 0.3 - cross them off as shown above. Now finish.

Answer

6.73 – 1.3 =



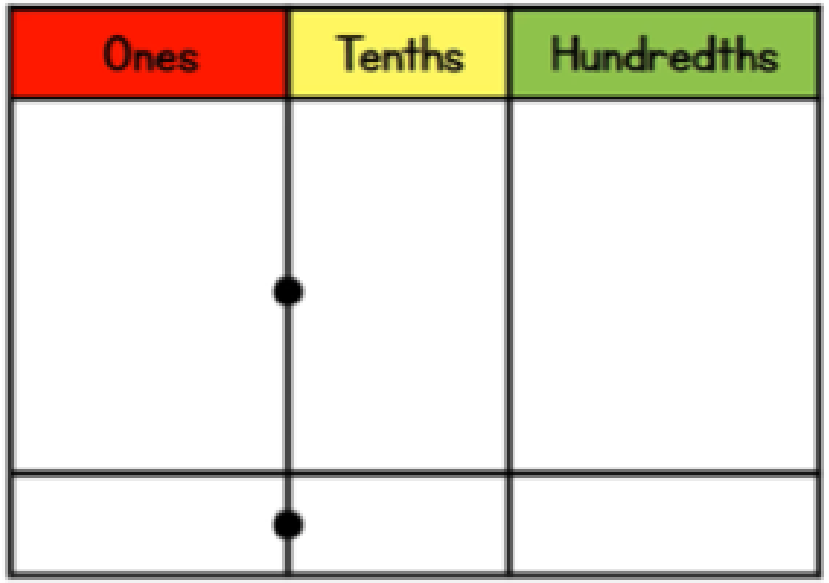
	6	• 7	3
–	1	• 3	
		•	

Answer: 5. 43

Don't forget the hundredths!!

Copy the place value grid and put 7.2 on the grid using counters. Then, copy the column subtraction.

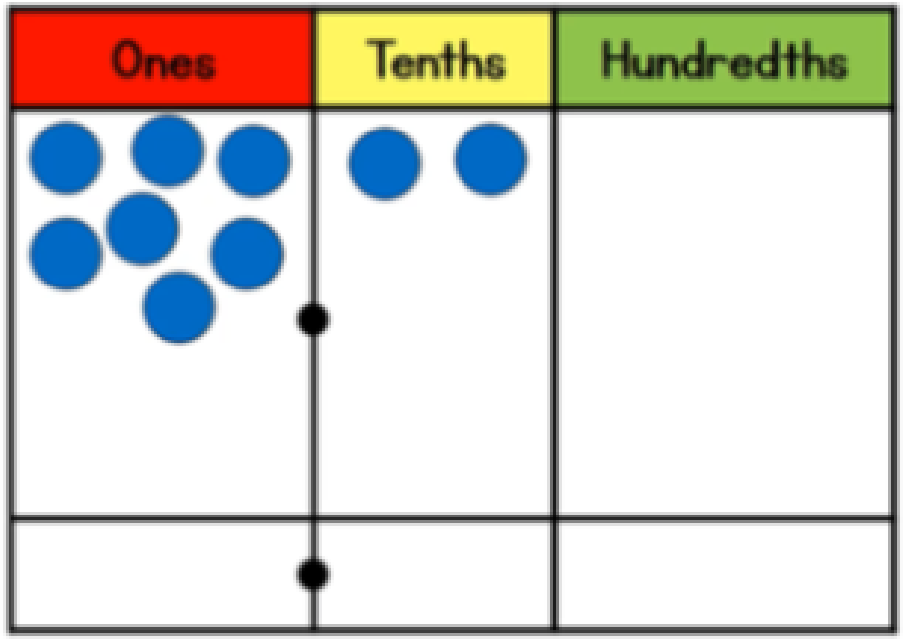
$7.2 - 2.27 =$

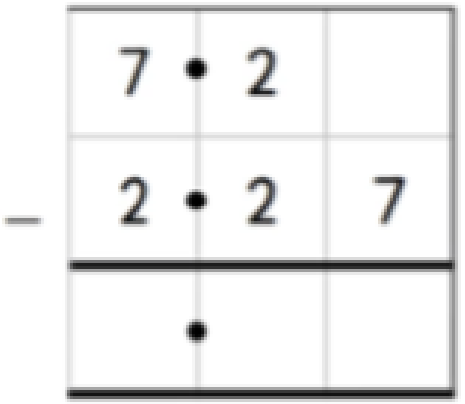


	7 • 2	
−	2 • 2	7
	•	

This is what your place value grid should now look like

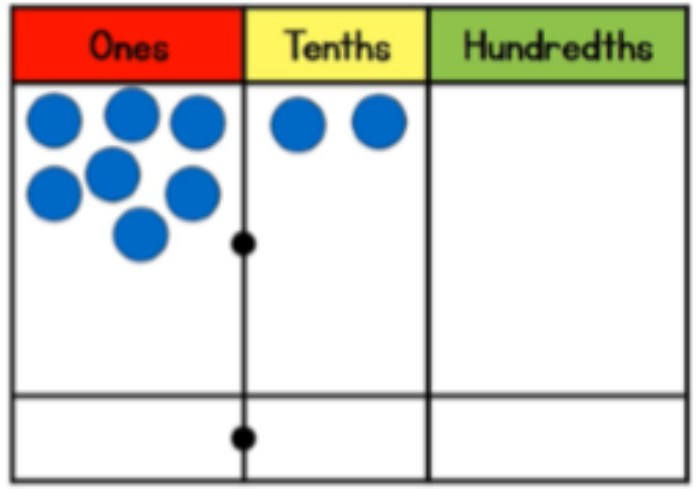
$7.2 - 2.27 =$

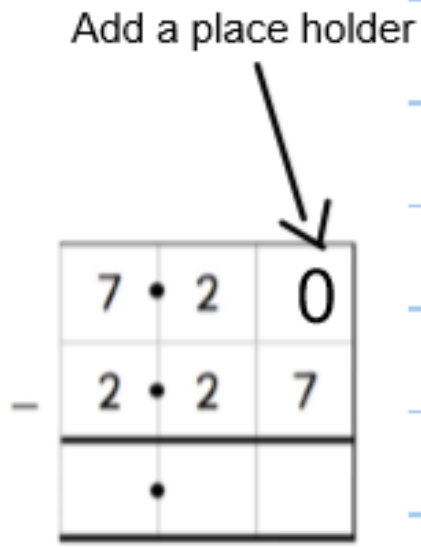




Now, we will use the place value grid to work out the question

$7.2 - 2.27 =$





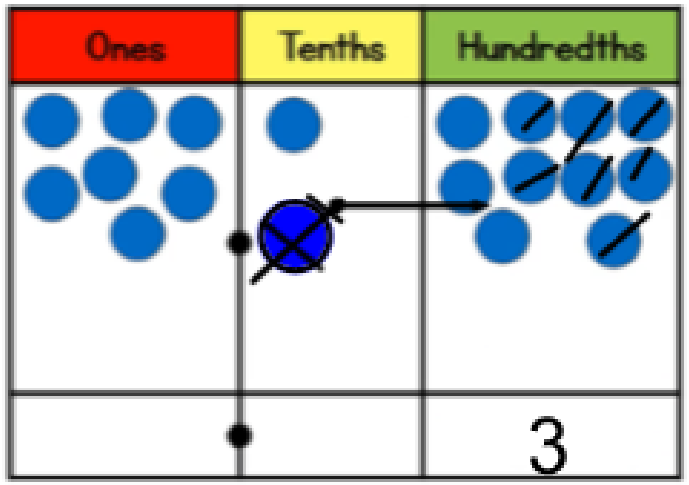
Let's work out the first question. What do you notice?

We will need to perform an exchange because there are 0 hundredths in 7.2

What do we need to exchange?

Now, we will use the place value grid to work out the question

$72 - 2.27 =$



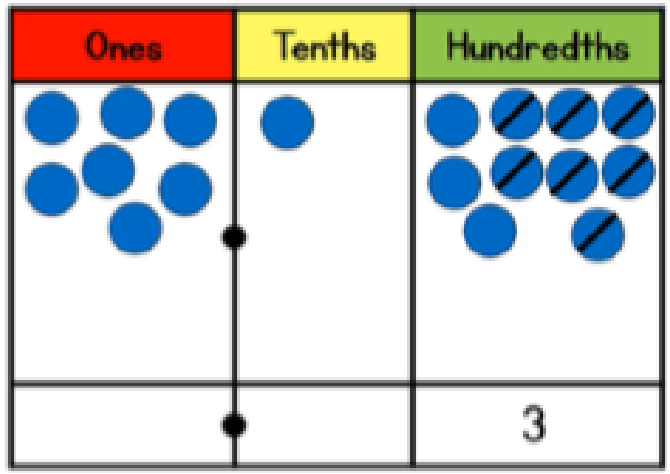
1 tenth = 10 hundredths

	7	1 2	10
−	2	2	7
			3

As you can see above we have exchanged 1 tenth for 10 hundredths. Also add this to your column method on the right.

Subtraction

$7.2 - 2.27 =$



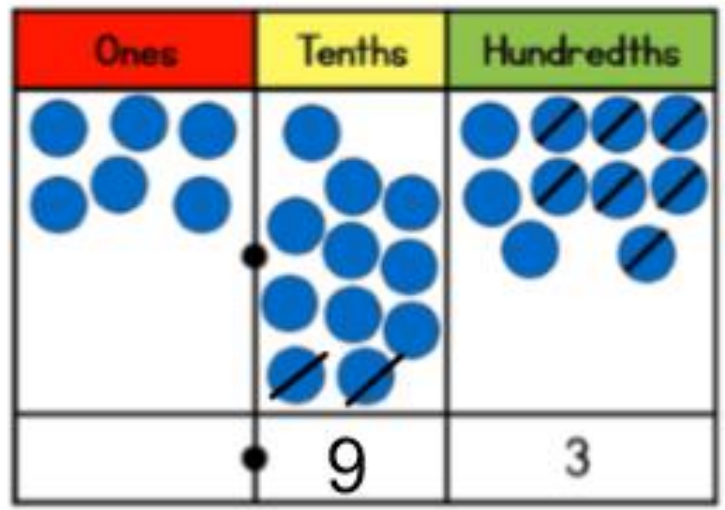
$$\begin{array}{r} 7 \bullet {}^{1}\!\not{2} \quad {}^{1}0 \\ -\ 2 \bullet 2 \quad 7 \\ \hline \bullet \quad 3 \end{array}$$

Now we will subtract the tenths, however, we only have 1 tenth so what shall we do?

Exchange!

Subtraction

$7.2 - 2.27 =$



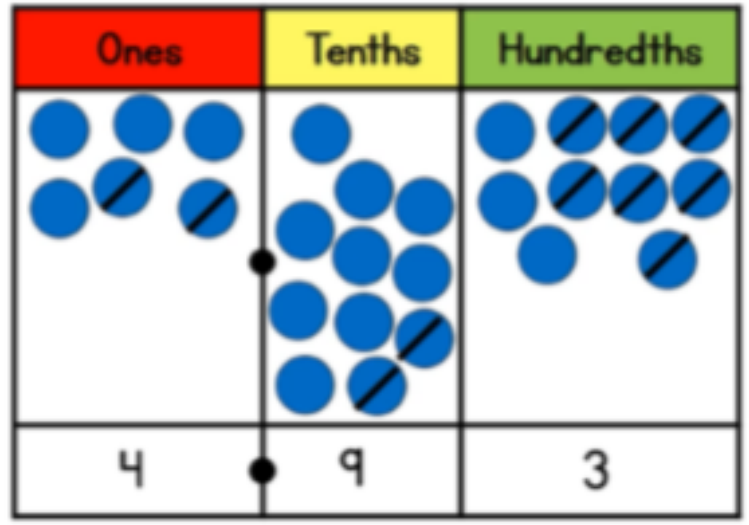
1 one = 10 tenths

$$\begin{array}{r} {}^{6}\cancel{7}\,.\,{}^{11}\cancel{2}\;\;{}^{1}0 \\ -\;\;2\,.\,2\;\;7 \\ \hline \quad .\,9\;\;3 \end{array}$$

11 tenths take away 2 tenths = 9 tenths

Subtraction

$7.2 - 2.27 =$



$$\begin{array}{r} {}^{6}\not{7}\bullet{}^{11}\not{2} \quad 10 \\ -\quad 2\bullet 2 \quad 7 \\ \hline 4\bullet 9 \quad 3 \end{array}$$

Finally, the ones column.

6 ones take away 2 ones = 4

Use a place value grid or column subtraction to work out the questions below

EXAMPLE:

5.78 - 1.09 =

$$\begin{array}{r} 5.{}^{6}\cancel{7}{}^{1}8 \\ 1.0\ 9\ - \\ \hline 4.6\ 9 \end{array}$$

13.952 - 4.57 =

6.25 - 5.001 =

ANSWERS

13.952 - 4.57 = 9.382

6.25 - 5.001 = 1.249

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

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

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

a)

		5	3	6	
	–	1	2		

b)

		5	3	6	
	–	3	5		

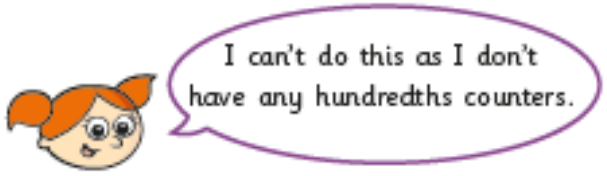
c)

		5	3	6	
	–	3	8		

d)

		5	3	6	
	–	4	7		

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



Do you agree with Alex? _____.

Talk about it with a partner.

3 Complete the subtractions.

a)

		2	3	6	
	–	1	4		

b)

		6	1	5	
	–	3	8		

c)

		7	3		
	–	1	1	5	

d)

		2	4	4		
	–		3	1	2	

4 Use the column method to work out the subtractions.

a) 13.59 – 1.82

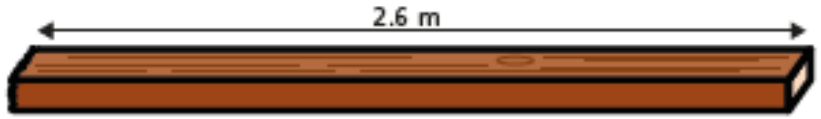
c) 5.6 – 1.39

b) 73.84 – 9.2

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.



a) What is the length of the remaining plank?

m

b) The carpenter cuts a second piece of wood from the plank.

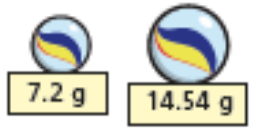
She now has 0.3 m of the plank remaining.

What is the length of the second piece of wood that she cut?

m

6 The mass of a bag of marbles is 54.3 g.

These two marbles are removed from the bag.



What is the mass of the bag of marbles now?

7 Work out the missing digits.

__3.4 – 2.5__ = 10.81

8 Use the column method to work out the subtractions.

a) 14 – 2.7

b) 8 – 3.65

c) 20 – 2.85

d) 26 – 3.91

e) 25 – 3.842

f) 90 – 0.821

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

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