

Hello Year 5

Mrs Ambler and I hope you have had a really good Easter break and that you are all keeping well. We are delighted with the work we are being sent by email– it is fabulous so well done!

Please find enclosed the Year 5 maths work for week commencing 20th April. This week we will be completing our topic on decimals. As before, the attached slides provide a sequence of 5 lessons on this topic.

If you would like to complete any additional activities, please follow White Rose ‘Home Learning’ lessons (Summer Term - Week 1) which provides some extra challenges around the topic of decimals . Any questions, please contact me by email and I will get back to you as soon as possible.

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

If you do not have a printer and I also appreciate printing can be expensive, please record the work in anyway you choose or use the exercise books we gave out before school closed. Ongoing maths work can also be completed using the **Prodigy** application which will cover calculations using addition, subtraction, division and multiplication. There is some great work being completed on Prodigy and I get regular updates, so very well done for that too

Good luck and Have fun!

TARGET To practise adding and subtracting decimals mentally.
It can help to imagine missing zeros.

Examples

1 − 0.39
1.00 − 0.39
Answer 0.61

8.5 − 1.46
8.50 − 1.46
Answer 7.04

A

Copy and complete.

- 1 $0.1 + \square = 1$
- 2 $0.7 + \square = 1$
- 3 $0.5 + \square = 1$
- 4 $1 - \square = 0.2$
- 5 $1 - \square = 0.4$
- 6 $1 - \square = 0.9$
- 7 $0.35 + \square = 1$
- 8 $0.75 + \square = 1$
- 9 $0.15 + \square = 1$
- 10 $1 - \square = 0.45$
- 11 $1 - \square = 0.95$
- 12 $1 - \square = 0.65$
- 13 $0.6 + \square = 0.8$
- 14 $1.2 + \square = 1.6$
- 15 $0.3 + \square = 0.9$
- 16 $\square + 0.4 = 2.75$
- 17 $\square + 1.43 = 1.5$
- 18 $\square + 0.3 = 3.82$
- 19 $0.9 - 0.2 = \square$
- 20 $2.6 - 0.37 = \square$
- 21 $1.8 - \square = 1.4$
- 22 $3.51 - \square = 3.3$
- 23 $\square - 0.5 = 0.2$
- 24 $\square - 0.49 = 1.6$

B

Make 1.

- 1 $0.26 + \square$
- 2 $0.83 + \square$
- 3 $0.45 + \square$
- 4 $\square + 0.79$
- 5 $\square + 0.12$
- 6 $\square + 0.64$
- 7 $0.37 + \square$
- 8 $0.91 + \square$
- 9 $0.08 + \square$
- 10 $\square + 0.53$
- 11 $\square + 0.72$
- 12 $\square + 0.29$
- 13 $0.32 + \square$
- 14 $0.87 + \square$
- 15 $0.41 + \square$
- 16 $\square + 0.69$
- 17 $\square + 0.16$
- 18 $\square + 0.73$
- 19 $0.98 + \square$
- 20 $0.24 + \square$
- 21 $0.57 + \square$
- 22 $\square + 0.05$
- 23 $\square + 0.86$
- 24 $\square + 0.31$

Work out

- 25 $1.4 + 0.83$
- 26 $3.716 + 0.3$
- 27 $6.5 + 0.95$
- 28 $3.58 - 0.9$
- 29 $1.325 - 0.52$
- 30 $5.4 - 0.14$
- 31 $2.6 + 0.57$
- 32 $4.9 + 0.436$
- 33 $5.18 + 0.721$
- 34 $4.7 - 0.08$
- 35 $9.22 - 0.7$
- 36 $8.093 - 4$
- 37 $2.4 + 0.65$
- 38 $1.735 + 0.9$
- 39 $5.31 + 0.282$
- 40 $6.489 - 2.05$
- 41 $7 - 0.36$
- 42 $1.6 - 0.75$
- 43 $3 + 0.819$
- 44 $8.92 + 1.2$
- 45 $4.7 + 0.637$
- 46 $2.39 - 0.9$
- 47 $7.1 - 0.025$
- 48 $4.24 - 0.111$

C

Copy and complete.

- 1 $0.625 + \square = 1$
- 2 $0.185 + \square = 1$
- 3 $0.935 + \square = 1$
- 4 $1 - \square = 0.815$
- 5 $1 - \square = 0.095$
- 6 $1 - \square = 0.275$
- 7 $0.755 + \square = 1$
- 8 $0.565 + \square = 1$
- 9 $0.345 + \square = 1$
- 10 $1 - \square = 0.435$
- 11 $1 - \square = 0.905$
- 12 $1 - \square = 0.155$
- 13 $3.15 = 2.108 + \square$
- 14 $4.3 = \square + 0.81$
- 15 $7.527 = 6.9 + \square$
- 16 $5.84 = \square + 0.404$
- 17 $8 = 7.725 + \square$
- 18 $2.409 = \square + 0.6$
- 19 $5 - \square = 4.299$
- 20 $\square - 0.7 = 6.58$
- 21 $9.46 - \square = 8.9$
- 22 $\square - 0.92 = 1.845$
- 23 $8.135 - \square = 7.53$
- 24 $\square - 0.625 = 3$

Please complete either column A, B or C. It might be best to complete an easier column before trying a harder one in order to build your confidence.

Lesson 2

Use the place value grid to help subtract 1.4 from 4.54

Ones	Tenths	Hundredths

$$\begin{array}{r}
 4.54 \\
 - 1.4 \\
 \hline \\
 \hline
 \end{array}$$

Use the column method to work out the following.

$$\begin{array}{r}
 6.06 \\
 - 3.7 \\
 \hline \\
 \hline
 \end{array}
 \qquad
 \begin{array}{r}
 4.7 \\
 - 3.825 \\
 \hline \\
 \hline
 \end{array}$$

$$\begin{array}{l}
 3.3 - 1.34 = \\
 14.41 - 1.43 = \\
 3 - 1.87 =
 \end{array}$$



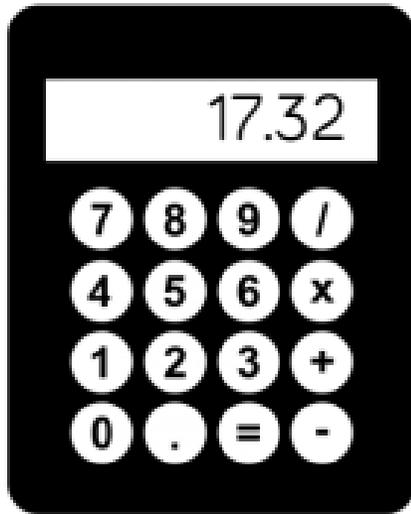
If there are 5 hundredths and I subtract nothing from it then there are still 5 hundredths.

$$\begin{array}{r}
 4.9 \\
 - 3.85 \\
 \hline
 1.15
 \end{array}$$

Do you agree with Whitney?
Explain your answer.

How much change would I get from £10 if I bought a bag of apples costing £4.27?





Teddy used a calculator to solve:
 $31.4 - 1.408$

When he looked at his answer of 17.32
he realised he'd made a mistake.

He had typed all the correct digits in.

Can you spot his mistake?

What should the correct answer be?

Calculation Practice:

$$4607 \times 9 =$$

$$3480 \times 7 =$$

$$3295 \times 8$$

$$2579 \times 11 =$$

Lesson 3

Use the place value grid to help add 143 and 1.45

Hundreds	Tens	Ones	Tenths	Hundredths
100	10 10 10 10	1 1 1		
		1	0.1 0.1 0.1 0.1	0.01 0.01 0.01 0.01 0.01

$$\begin{array}{r}
 143. \\
 + 1.45 \\
 \hline
 \end{array}$$

Use the place value grid to help work out $12 - 1.2$

Tens	Ones	Tenths
10	1 1	

$$\begin{array}{r}
 12. \\
 - 1.2 \\
 \hline
 \end{array}$$

Find the most efficient method to solve these calculations.

$43 - 2.14 + 0.86 =$

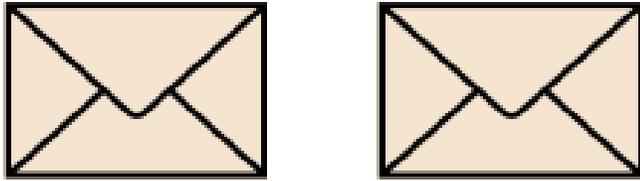
$19 - 0.25 =$

$23 + 4.105 =$

$19 - 17.37 =$

What are the missing digits in the calculation?

$$\begin{array}{r}
 31.\text{[blot]}0 \\
 - \text{[blot]}.37 \\
 \hline
 29.63
 \end{array}$$

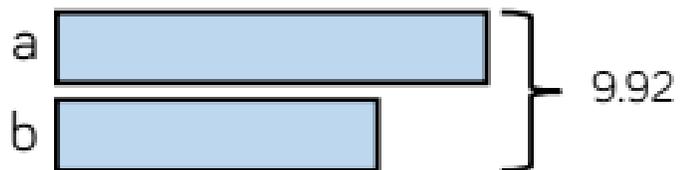


Two envelopes contain two different numbers.

- The sum of the numbers is 9.92
- The difference between the numbers is 2.32

What numbers are inside the envelopes?

How can this bar model help?



$$1978 \times 9 =$$

$$1240 \div 9 =$$

$$15\,578 \times 4 =$$

$$11\,910 \div 6 =$$

- Use the place value grid to multiply 3.24 by 10, 100 and 1,000

Thousands	Hundreds	Tens	Ones	Tenths	Hundredths
			● ● ●	● ●	● ● ● ●

When you multiply by ____, you move the counters ____ places to the left.

- Use a place value grid to multiply these decimals by 10, 100 and 1,000

4.24

2.401

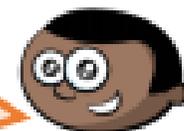
42.1

- Complete the table below.

	x10	x100	x1,000
3.14			
13			
0.233			

Lesson 4

Multiplying by 1,000 is the same as doing $10 \times 10 \times 10$



Do you agree with Mo?
Explain your answer.

Using the digits 0-9 create a number with up to 3 decimal places, for example, 3.451

Cover the number using counters on your Gattegno chart.

10,000	20,000	30,000	40,000	50,000	60,000	70,000	80,000	90,000
1,000	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000
100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9
0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.001	0.002	0.003	0.004	0.005	0.006	0.007	0.008	0.009

Explore what happens when you multiply your number by 10, then 100, then 1,000
What patterns do you notice?

$$33\,567 \times 6 =$$

$$3662 \div 8 =$$

$$14\,832 \div 9 =$$

$$5575 \div 7 =$$

$$4567 \times 12 =$$

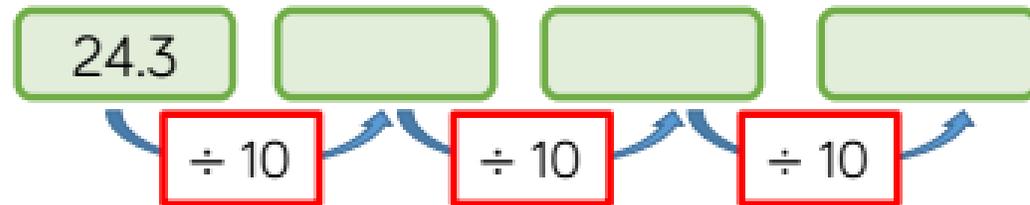
Use the place value grid to divide 14.4 by 10, 100 and 1,000

Lesson 5

T	O	Tths	Hths	Thths	TThth
●	● ● ● ●	● ● ● ●			

When you divide by ____, you move the counters ____ places to the right.

Fill in the missing numbers in the diagram.



Fill in the missing numbers in these calculations.

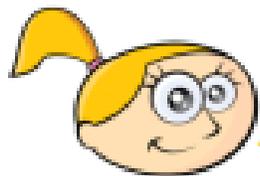
$$34.2 \div \square = 0.342 \quad \square \div 10 = 54.1$$

$$\square \div 10 = 1.93 \div 100$$

If you multiply a number by 1,000, you can just divide the answer by 1,000 to get back to your original number.



Whitney

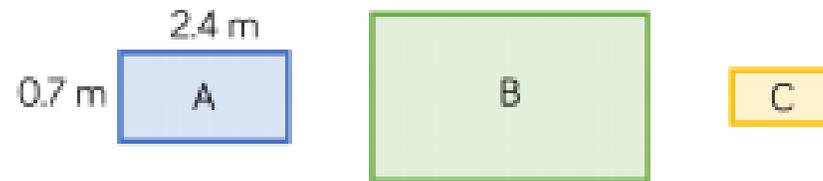


Eva

That's not true, you would need to divide the answer by ten three times.

Who do you agree with?
Explain your thinking.

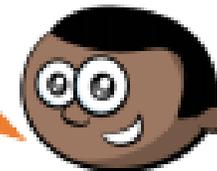
Here are three rectangles.



The lengths of rectangle B are 10 times larger than rectangle A.

The lengths of rectangle C are 100 times smaller than rectangle B.

The perimeter of rectangle A is 1,000 times greater than the perimeter of rectangle C.



Do you agree with Mo?
Explain your thinking.