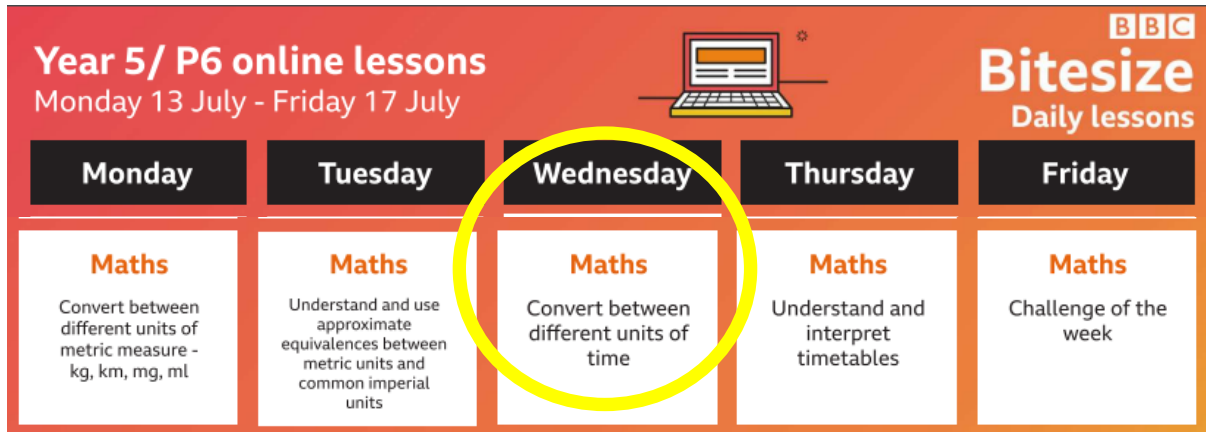


Summer 2 Week 7 Maths Day 3

Try BBC Bitesize for daily lessons

<https://www.bbc.co.uk/bitesize/dailylessons>

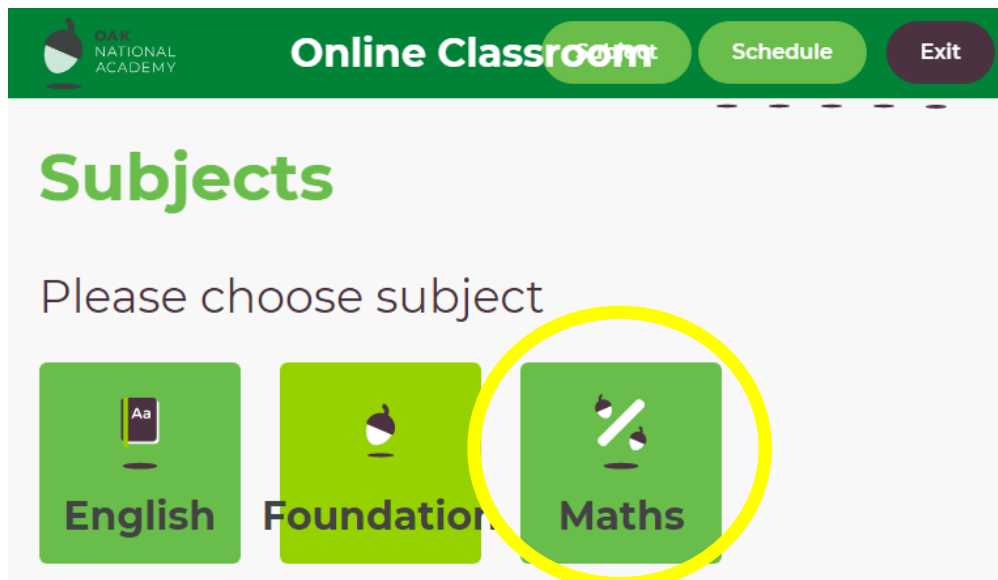


The screenshot shows the BBC Bitesize website for Year 5/ P6 online lessons, running from Monday 13 July to Friday 17 July. The page features a grid of daily lesson topics. The 'Wednesday' column is highlighted with a yellow circle. The lessons are as follows:

Monday	Tuesday	Wednesday	Thursday	Friday
Maths Convert between different units of metric measure - kg, km, mg, ml	Maths Understand and use approximate equivalences between metric units and common imperial units	Maths Convert between different units of time	Maths Understand and interpret timetables	Maths Challenge of the week

Try the National Academy online classroom for lessons

<https://www.thenational.academy/online-classroom/year-5/#subjects>



The screenshot shows the National Academy Online Classroom interface. The 'Subjects' section is visible, with a prompt 'Please choose subject'. Three subject buttons are shown: 'English', 'Foundation', and 'Maths'. The 'Maths' button is highlighted with a yellow circle.

Don't forget TT Rockstars!

<https://play.ttrockstars.com/auth/school/student>

Revise short division, expressing remainders as fractions.

Each day covers one maths topic. It should take you about 1 hour or just a little more.

1. Look at the learning reminders.
2. Complete 'Mild' or 'Hot' practice questions
3. Finding it tricky? Have a look at 'A bit stuck' and ask a grown up
4. Completed the practise sheets? Try the 'Check your understanding' questions!

Learning Reminders

Revise short division of 4-digit numbers, expressing remainders as fractions.

Solving $2786 \div 4$ using short division

Start with the 1000s. There are no 4s in 2 so leave a space above the 1000s place and move on.

Now divide 27 by 4.
There are 6 4s in 27 and 3 left over.
Write 6 above the line, in the 100s place.
Write 3 in front of the next digit.

Now divide 38 by 4.
There are 9 4s in 38 and 2 left over.
Write 9 above the line, in the 10s place.
Write 2 in front of the next digit.

Now divide 26 by 4.
There are six 4s in 26 and 2 left over.
Write 6 above the line, in the 1s place.
There are 2 left over, so write r 2.

6 9 6 r 2
4 $\overline{) 2786}$

Revise short division of 4-digit numbers, expressing remainders as fractions.

$$2786 \div 4 = 696 \text{ r } 2$$

If we want an exact answer we can divide 2 by 4 to give $\frac{2}{4}$.
We can simplify that to $\frac{1}{2}$.
So $2786 \div 4 = 696\frac{1}{2}$

$$473 \div 4 = 118 \text{ r } 1$$

Here are the answers to 3 more division questions.

$$3958 \div 3 = 1319 \text{ r } 1$$

$$7975 \div 4 = 1993 \text{ r } 3$$

Now try to write these answers using fractions.

Answers

$1993\frac{3}{4}$
 $1319\frac{1}{3}$
 $118\frac{1}{4}$

Practice Sheet Mild
Short division

Use short division to work out the answers to these divisions.
Write the remainders as fractions.

1. $467 \div 3$

2. $623 \div 4$

3. $277 \div 3$

4. $651 \div 8$

5. $459 \div 6$

6. $272 \div 5$

7. $5631 \div 5$

8. $8621 \div 4$

9. $4478 \div 3$

10. $6832 \div 6$

Practice Sheet Hot

Short division

Use short division to work out the answers to these divisions.
Write the remainders as fractions.

1. $5631 \div 5$

2. $8621 \div 4$

3. $4478 \div 3$

4. $6832 \div 6$

5. $8234 \div 7$

6. $3345 \div 4$

7. $2845 \div 3$

8. $5043 \div 3$

9. $4823 \div 5$

10. $6728 \div 8$

11. $4527 \div 6$

12. $2934 \div 7$

Challenge

Write two other divisions by 6 with answers less than 1000.

Write two other divisions by 6 with answers between 1000 and 1200.

A bit stuck?

Division dudes and divas

Things you will need:

- A pencil



1. $74 \div 3$

$$\begin{array}{r} 24 \text{ r } 2 \\ 3 \overline{) 74} \end{array}$$

Now solve these divisions, just like the example:

2. $98 \div 6$

3. $93 \div 4$

4. $103 \div 8$

5. $117 \div 4$

6. $131 \div 6$

7. $178 \div 5$

8. $182 \div 8$

How to do this...

- o Look at the first digit
- o How many 3s in 7?
- o There are 2 so write 2 above the line
- o Write the remainder in front of the second digit
- o How many 3s in 14?
- o There are 4 so write 4 above the line
- o How many remaining?
- o Write r 2 after the answer.

Check your understanding

Find:

$$581 \div 7 = \boxed{}$$

$$3456 \div 5 = \boxed{}$$

$$5400 \div 9 = \boxed{}$$

A farmer is packing eggs.

Each box holds six eggs.

The farmer has 890 eggs to pack.

How many boxes will the farmer fill?

Fill the missing boxes to give an answer with fraction remainders as follows:

$$187 \div \boxed{} = \text{____} \frac{1}{2}$$

$$331 \div \boxed{} = \text{____} \frac{3}{4}$$

$$\boxed{} \div 10 = \text{____} \frac{2}{5}$$

Answers

Practice Sheet (Mild)

1. $467 \div 3 = 155 \frac{2}{3}$
2. $623 \div 4 = 155 \frac{3}{4}$
3. $277 \div 3 = 92 \frac{1}{3}$
4. $651 \div 8 = 81 \frac{3}{8}$
5. $459 \div 6 = 76 \frac{1}{2}$
6. $272 \div 5 = 54 \frac{2}{5}$
7. $5631 \div 5 = 1126 \frac{1}{5}$
8. $8621 \div 4 = 2155 \frac{1}{4}$
9. $4478 \div 3 = 1492 \frac{2}{3}$
10. $6832 \div 6 = 1138 \frac{4}{3}$

Practice Sheet (Hot)

1. $5631 \div 5 = 1126 \frac{1}{5}$
2. $8621 \div 4 = 2155 \frac{1}{4}$
3. $4478 \div 3 = 1492 \frac{2}{3}$
4. $6832 \div 6 = 1138 \frac{4}{3}$
5. $8234 \div 7 = 1176 \frac{2}{7}$
6. $3345 \div 4 = 836 \frac{1}{4}$
7. $2845 \div 3 = 948 \frac{1}{3}$
8. $5043 \div 3 = 1681$
9. $4823 \div 5 = 964 \frac{3}{5}$
10. $6728 \div 8 = 841$
11. $4527 \div 6 = 754 \frac{3}{2}$
12. $2934 \div 7 = 419 \frac{1}{7}$

Challenge

Write two other divisions by 6 with answers less than 1000.

e.g. $5662 \div 6 = 943 \frac{2}{3}$ and $3638 \div 6 = 606 \frac{1}{3}$

Write two other divisions by 6 with answers between 1000 and 1200.

e.g. $6404 \div 6 = 1067 \frac{1}{3}$ and $7199 \div 6 = 1199 \frac{5}{6}$

Check your understanding

Find:

$$581 \div 7 = 83$$

$3456 \div 5 = 691 \text{ r } 1$ or $691\frac{1}{5}$ Note that 691 (without the remainder) is not correct.

$$5400 \div 9 = 600 \quad \text{Makes use of times tables knowledge (6 x 9 = 54).}$$

A farmer is packing eggs.

Each box holds six eggs.

The farmer has 890 eggs to pack.

How many boxes will the farmer fill?

The farmer fills 148 boxes.

The answer to the division, $890 \div 6$, is $148 \text{ r } 2$ (or $148\frac{2}{6}$) but note that that is not the answer to the word problem.

Fill the missing boxes to give an answer with fraction remainders as follows:

$$187 \div 2 = 93\frac{1}{2} \quad \text{A fraction of } \frac{1}{2} \text{ results from dividing an odd number by 2.}$$

$$331 \div 4 = 82\frac{3}{4} \quad \text{A fraction of } \frac{3}{4} \text{ (or } \frac{1}{4}) \text{ results from dividing an odd number by 4.}$$

$$\text{e.g. } 14 \div 10 = 1\frac{2}{5} \quad 24 \div 10 = 2\frac{2}{5} \text{ etc. i.e. any number with a 4 as the 1s digit.}$$