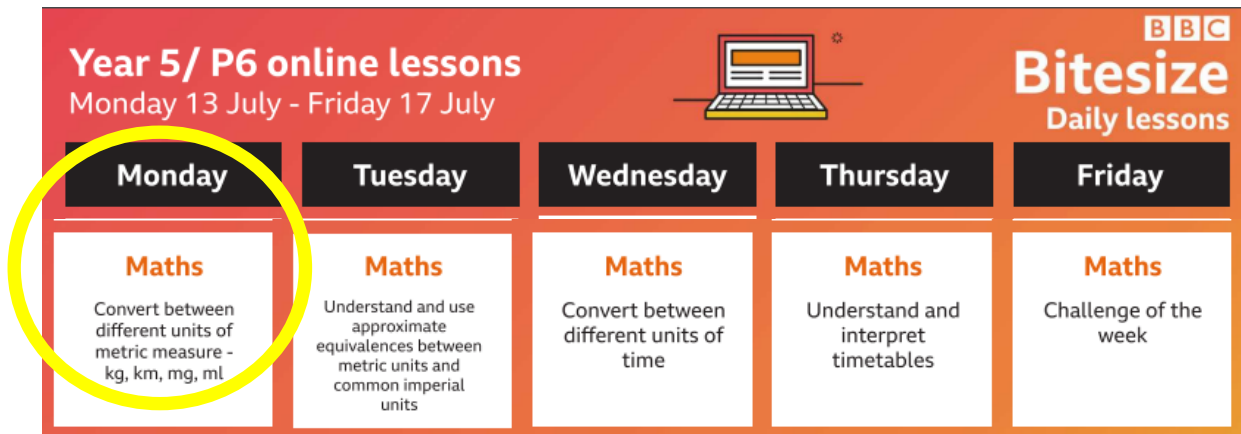


Summer 2 Week 7 Maths Day 1

Try BBC Bitesize for daily lessons

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

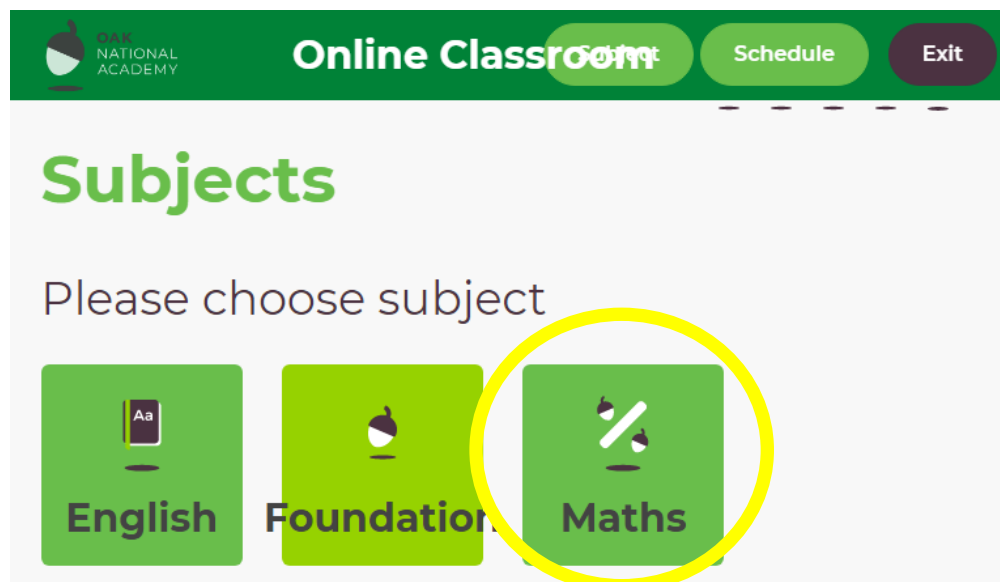


The screenshot shows the BBC Bitesize website for Year 5/ P6 online lessons, running from Monday 13 July to Friday 17 July. The page features a grid of daily lesson topics. The 'Monday' column is highlighted with a yellow circle. The lessons are as follows:

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. At the top, there is a green header with the National Academy logo, the text 'Online Classroom', and buttons for 'Sign in', 'Schedule', and 'Exit'. Below the header, the word 'Subjects' is displayed in large green letters. A prompt 'Please choose subject' is shown above three green buttons: 'English' (with an 'Aa' icon), 'Foundation' (with a lightbulb icon), and 'Maths' (with a pencil and paper icon). The 'Maths' button is highlighted with a yellow circle.

Don't forget TT Rockstars!

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

Use short division to divide, including writing remainders.

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 investigation!

Learning Reminders

Use short division to divide 3 and 4-digit numbers by 1-digit numbers, including those that leave a remainder.

Solving $547 \div 3$ using short division

Start by dividing 5 by 3.
There is one 3 in 5 and 2 left over.
So, write 1 above the line, in the 100s place.
Write the 2 left over in front of the next digit.

Now divide 24 by 3.
There are exactly eight 3s in 24.
So, write 8 above the line, in the 10s place.

Now divide 7 by 3.
There are two 3s in 7, and 1 left over.
So, write 2 above the line, in the 1s place.
There is 1 left over, so we write r 1.

$$\begin{array}{r} 182 \text{ r } 1 \\ 3 \overline{) 547} \end{array}$$

The answer is **182 r 1**.

Use short division to divide 3 and 4-digit numbers by single-digit numbers, including those that leave a remainder.

$$1381 \div 6$$

Now let's try an example with 4 digits! Roughly how many 6s are in 1381?

$200 \times 6 = 1200$ and $300 \times 6 = 1800$.
The answer must lie between 200 and 300.

Set out the question carefully.
Leaving a space between digits for any extra digits we may need to write in.

$$6 \overline{)1381}$$

Use short division to divide 3 and 4-digit numbers by 1-digit numbers, including those that leave a remainder.

Start with the 1000s. There are no 6s in 1 so leave a space above the 1 and move on.

Now divide 13 by 6.
There are two 6s in 13 and 1 left over.
So, write 2 above the line, in the 100s place.
Write the 1 left over in front of the next digit.

Now divide 18 by 6.
There are exactly three 6s in 18.
So, write 3 above the line, in the 10s place.

There are no 6s in 1.
Write 0 above the line in the 1s place.
There is 1 left over, so write r 1.

$$6 \overline{)1381} \begin{array}{r} 230r1 \end{array}$$

The answer is **230 r 1**.

Practice Sheet Mild

Short division with remainders

1. $542 \div 4$

2. $523 \div 3$

3. $746 \div 5$

4. $638 \div 3$

5. $982 \div 4$

6. $249 \div 4$

7. $341 \div 4$

8. $283 \div 3$

9. $364 \div 5$

10. $754 \div 6$

Practice Sheet Hot

Short division with remainders

1. $5237 \div 4$

2. $8351 \div 6$

3. $8343 \div 8$

4. $2734 \div 5$

5. $9535 \div 4$

6. $2347 \div 3$

7. $1429 \div 4$

8. $1532 \div 7$

9. $4735 \div 6$

10. $5391 \div 8$

A bit stuck

Chunking champs

Things you will need:

- A pencil



What to do:

- Choose a division.
- Work out the answer individually.
- Share your jottings with your partner.
- Repeat at least four more times.
- Score 10 points for each correct answer between 10 and 20, 20 points for each answer between 20 and 30, and also the remainder as a bonus!

$$111 \div 4$$

$$53 \div 3$$

$$125 \div 5$$

$$97 \div 4$$

$$84 \div 6$$

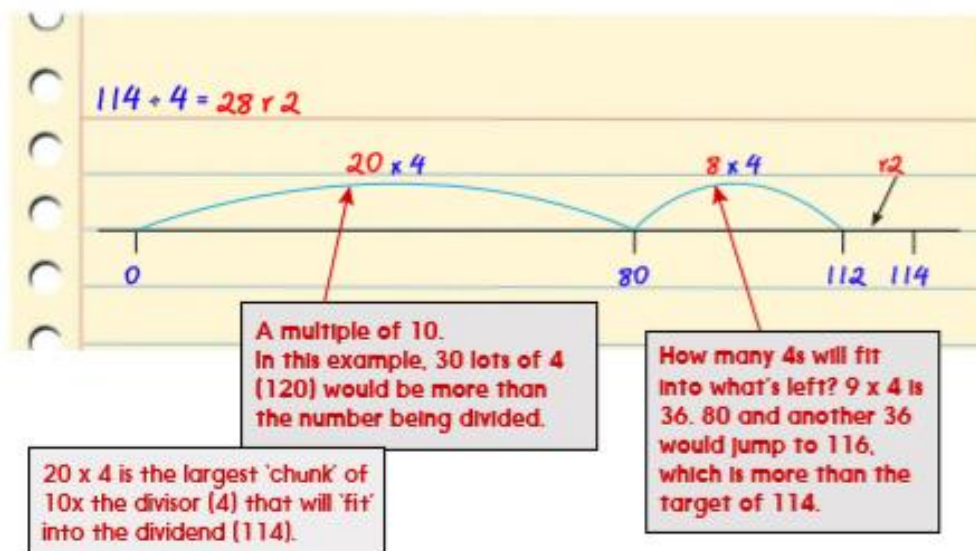
$$110 \div 9$$

$$84 \div 3$$

$$75 \div 4$$

$$132 \div 5$$

$$139 \div 5$$



S-t-r-e-t-c-h:

Work out 20×5 , 30×5 , 20×3 and 30×3 .

Use the answers to help work out $172 \div 5$ and $103 \div 3$.

Learning outcomes:

- I can use chunking to divide, giving answers between 10 and 30, with remainders.
- I am beginning to use chunking to divide, giving answers between 30 and 40, with remainders.

Investigation

Investigating remainders

1262

1862

1922

- Choose one of the numbers and divide it in turn by 3, 4, 5 and 6.
- Record each division, and the remainder, what do you notice?
- Now try the same with the other two numbers, what happens this time?
- How can you explain this?

Clue!

Try subtracting 2 from each of the three starting numbers and think about what you know about factors and multiples...

- Find the difference between 1862 and 1262; then between 1922 and 1862.
- Use that information to find two more numbers that will give you the same results when you divide them by 3, 4, 5 and 6.
- How can you be sure without even trying out the divisions?

Answers

Practice Sheet (Mild)

1. $542 \div 4 = 135 \text{ r}2$
2. $523 \div 3 = 174 \text{ r}1$
3. $746 \div 5 = 149 \text{ r}1$
4. $638 \div 3 = 212 \text{ r}2$
5. $982 \div 4 = 245 \text{ r}2$
6. $249 \div 4 = 62 \text{ r}1$
7. $341 \div 4 = 85 \text{ r}1$
8. $283 \div 3 = 94 \text{ r}1$
9. $364 \div 5 = 72 \text{ r}4$
10. $754 \div 6 = 125 \text{ r}4$

Practice Sheet (Hot)

1. $5237 \div 4 = 1309 \text{ r}1$
2. $8351 \div 6 = 1391 \text{ r}5$
3. $8343 \div 8 = 1042 \text{ r}7$
4. $2734 \div 5 = 546 \text{ r}4$
5. $9535 \div 4 = 2383 \text{ r}3$
6. $2347 \div 3 = 782 \text{ r}1$
7. $1429 \div 4 = 357 \text{ r}1$
8. $1532 \div 7 = 218 \text{ r}6$
9. $4735 \div 6 = 789 \text{ r}1$
10. $5391 \div 8 = 673 \text{ r}7$