

MATHS Learn at Home packs: Year 6, Week 11

These notes are intended for teachers who are using these materials to continue to teach their class using any form of online file sharing.

'Your home-learning resources have helped our school immeasurably: they're so clear, and the fact that they are in daily chunks, with plenty of explanation for parents at home, has made them invaluable.'

Nick, a Suffolk primary teacher.

Our small team have been working round the clock to produce these materials and we're really happy that huge numbers of teachers, schools and parents have found them useful – and emailed us to say so!

If you're not a regular user of Hamilton, why not consider becoming a [Friend of the charity](#) to access the teaching materials in English, Maths and Topics for the whole year? Or take a moment to browse our [free resources for schools](#).

The 'timetable' for this week's teaching and learning is as follows

- **Day 1** – In the Learning Reminders, children revise how to use multiplication facts and place value to mentally multiply and divide decimals by whole numbers. They use these strategies in the practice sheets.
- **Day 2** – Children revise how to use a scale factor to scale down, and how to find the missing lengths of rectangles whose sides are in a given ratio.
- **Day 3** – *Provide some teacher input, using the Presentation* on an investigation involving joining doubles around a circle.* Children continue this investigation, joining numbers to multiples of 3, 4, 5 around the circle. They describe the resulting patterns and make predictions about patterns for different multiples.
- **Day 4** – *Provide some teacher input, using the Presentation* to remind children of short and long division, and short multiplication.* Children use one or more of these methods in a choice of three investigations.
- **Day 5** – Children are introduced to Pythagoras' theorem. They test the theorem by drawing their own right-angled triangles and comparing the sum of squares of the two shorter sides with the square of the longest side.

Structure of materials

	PowerPoint lesson	Learning Reminders	Practice Sheet(s)	Problem solving task	A bit Stuck?	Check your understanding
Day 1		✓	✓		✓	✓
Day 3		✓	✓		✓	✓
Day 3	✓	✓		✓		✓
Day 4	✓	✓		✓		✓
Day 5		✓		✓		✓

Summary of Week

Day 1 – Multiply and divide decimals by whole numbers.

Day 2 – Solve ratio problems; solve scale factor problems involving ‘similar’ shapes.

Day 3 – Investigate patterns when joining multiples round the circumference of a circle.

Day 4 – Use short/ long division & short multiplication; find, describe & predict patterns.

Day 5 – Explore Pythagoras’ theorem.

**PowerPoint presentations are provided. You can use your phone to film yourself going through these on a laptop. OR parents and children can access them at home, preferably in PowerPoint but also as images on a tablet. You can then talk these through. Or you may have a clever online way, perhaps through the school’s website, of sharing these presentations with children at home.*