

## 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 online file sharing/ group chats/ video conferencing, etc.

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.

**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.

### 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		✓		✓		✓

*\*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.*