

MATHS Learn at Home packs: Year 6, Week 10

These notes are intended for teachers who are continuing to teach their class using any form of online file sharing/ group chats/ video conferencing, etc.

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

- **Day 1** – Children explore how to use factors and partitioning to multiply by 5, 20, 6 and 8. They multiply by 20 then 8 to scale up given dimensions of models. Encourage children to have a go at the investigation to develop further fluency in mental multiplication.
- **Day 2** – Children explore mental strategies to divide by 5, 20, 6, 8 and 200. They divide by 200 to calculate the dimensions of dinosaur toys on the practice sheets.
- **Day 3** – *Provide some teacher input, using the Presentation** to show a shape being translated and reflected repeatedly to form a pattern (no voiceover provided). Encourage children to create their own patterns using translation, reflection or rotation.
- **Day 4** – Children explore the ratios of side lengths in rectangles and learn about the 'Golden Section' ratio. They are given instructions on how to draw a 'natural' spiral. They may recognise the sequence as the Fibonacci sequence.
- **Day 5** – Children explore ratios between body measurements, looking for pairs of measurements which have the ratio 1 to 1.6, the Golden Section. Ensure that they realise that the ratios of body measurements will vary – it would be boring if we were all the same!

Day 1 – Use mental strategies to multiply by 5, 20, 6, 4 and 8. Solve scaling problems.

Day 2 – Use mental strategies to divide by 5, 20, 6, 4 and 8. Solve scaling problems.

Day 3 – Use translations, rotations and reflections to create patterns.

Day 4 – Explore ratios, including the Golden Section.

Day 5 – Explore ratios, including the Golden Section.

Structure of materials

	PowerPoint lesson	Learning Reminders	Practice Sheet(s)	Problem solving task	A bit Stuck?	Check your understanding
Day 1		✓	✓	✓	✓	
Day 2		✓	✓		✓	✓
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.*