Year 6 Maths

Developing/ Expected/ Greater depth activity

Lesson 3

LO: TBAT apply my knowledge of perimeter to complete measurements.

Task: From this week your tasks will be different. We are now introducing a
project which needs to be completed alongside arithmetic and reasoning problems.

Success Criteria:

1. Complete the addition reasoning problems.
2. Recap arithmetic methods.
3. Apply your knowledge of perimeter to complete measurements.

Year 6 Maths
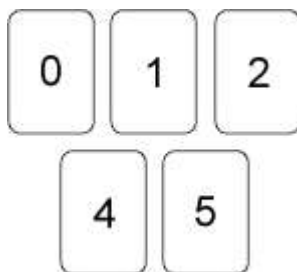## Main activity

Task 1	Task 2	Task 3

Problem solving

1. Annie swims on average 0.87 km in 30 minutes. If she continues at the same speed, how far will she swim in 2 hours, rounded to one decimal place?

   Circle your answer.

   3.2 km   3.3 km   3.4 km   3.5 km   3.6 km

2. Here are five digit cards.

   0   1   2

   4   5

   Use each card once to make these calculations correct.

   $0.04 \times \boxed{}\boxed{} = 0.48$

   $0.7 \times \boxed{}\boxed{} = 28$

Arithmetic

15. $\frac{2}{5}$ of 30 =

16. $\frac{1}{6} = \frac{?}{30}$

17. 70% of 80 =

18. $7\overline{)3456}$ =

19. 0.07 × 4 =

20. 2.97 × 4 =

21. 9.78 × 1000 =

Project

Building Mr and Mrs Smith's House!
Find the perimeter of each room and decide on the type of wall covering to use.
Copy the table in your book to help you.
- ⇨ Basic paint costs £2.50 per 1m
- ⇨ Luxury paint costs £3.75 per 1m
- ⇨ Tiling costs £5.75 per 1m
- ⇨ Basic wallpaper costs £4.30 per 1m
- ⇨ Luxury wallpaper costs £5.60 per 1m.

Room	Perimeter	Wall covering Type	Wall covering cost per 1m	Wall covering cost for the room
Total:				

$0.0\boxed{} \times 4 = 0.2$

3. Write the missing fractions.

$$\frac{3}{4} \quad \times \quad \boxed{} \quad = \quad \frac{9}{20}$$

$$\frac{3}{4} \quad \times \quad \boxed{} \quad = \quad \frac{1}{4}$$

4. Ellie had a piece of ribbon that was $\frac{3}{4}$ m long.

   She cut it and gave half to Grace.

   What **fraction** of a metre did she give to Grace?