

## Week 5

### This week in a nutshell:

There are some important conceptual topics this week. Dimensions of units are often overlooked by students; checking understanding here is vital. The distinction between perimeter and area must be made without ambiguity. The properties of some 2D shapes are included as questions, partly for student confidence and partly as a means of discussion. Practicing identifying and using the correct given information from a question will become increasingly important as the maths curriculum develops.

**Question 1:** Units of length and area

**Question 2:** Comparing decimals

**Question 3:** Recognising multiples

**Question 4:** Perimeter of simple shapes

**Question 5:** Using properties of 2D shapes

### This week's ideas for class discussion include:

Question 1: **Units of length and area**

- How do the way units are written tell us if we are looking at length or area?

Question 2: **Comparing decimals**

- How does place value help us compare decimals?

Question 3: **Recognising multiples**

- Can you suggest quick ways of checking multiples for different numbers?

Question 4: **Perimeter of simple shapes**

- How would you define perimeter in your own words?

Question 5: **Using properties of 2D shapes**

- What pieces of information are most useful when classifying 2D shapes?
- How much information do you need to be confident there is only one answer?

## Week 5: Day 1

- 1) Are these units of length, area or neither?

$\text{cm}^2$

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- 2) Use  $<$ ,  $>$  or  $=$  to fill the box.

0.1  0.01

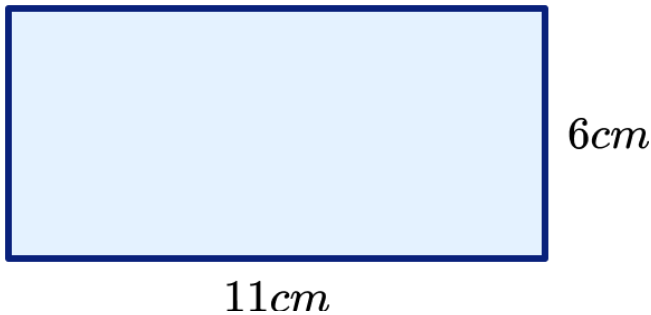
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- 3) Circle the number that is not a multiple of 4.

16, 28, 34, 44, 52

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- 4) Find the perimeter of this rectangle



- 5) Name the 2D shape from its properties:

- 4 equal sides
- All the angles are  $90^\circ$
- Opposite sides are parallel

## Week 5: Day 1 Answers

- 1) Are these units of length, area or neither? **area**

$\text{cm}^2$

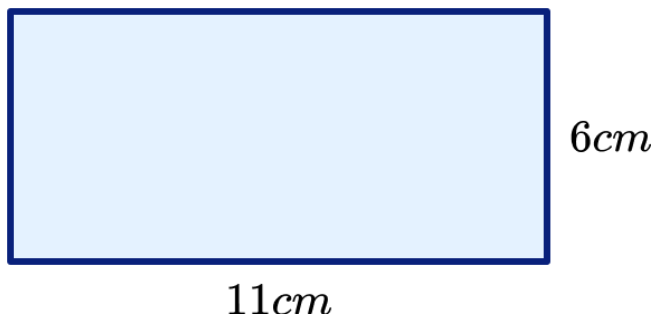
- 2) Use  $<$ ,  $>$  or  $=$  to fill the box.

0.1  **$>$**  0.01

- 3) Circle the number that is not a multiple of 4.

16, 28, **34**, 44, 52

- 4) Find the perimeter of this rectangle **34cm**



- 5) Name the 2D shape from its properties:

- 4 equal sides
- All the angles are  $90^\circ$
- Opposite sides are parallel

**Square**

## Week 5: Day 2

- 1) Are these units of length, area or neither?

mm

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- 2) Use  $<$ ,  $>$  or  $=$  to fill the box.

0.25  0.032

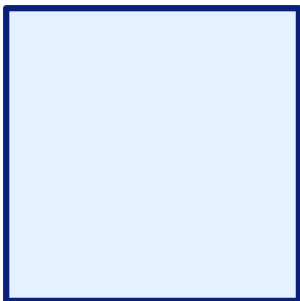
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- 3) Circle the number that is not a multiple of 3.

15, 27, 37, 42, 54

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- 4) This is a square with side length 8.5cm. What is its perimeter?



- 5) Name the 2D shape from its properties:

- 3 equal sides
- All the angles are  $60^\circ$

## Week 5: Day 2 Answers

- 1) Are these units of length, area or neither? **length**

mm

- 2) Use <, > or = to fill the box.

0.25  0.032

- 3) Circle the number that is not a multiple of 3.

15, 27, **37**, 42, 54

- 4) This is a square with side length 8.5cm. What is its perimeter?



- 5) Name the 2D shape from its properties:

- 3 equal sides
- All the angles are  $60^\circ$

**Equilateral triangle**

## Week 5: Day 3

- 1) Are these units of length, area or neither?

$m^3$

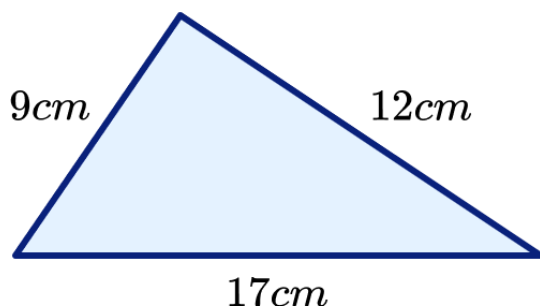
- 2) Use  $<$ ,  $>$  or  $=$  to fill the box.

0.00121  0.00111

- 3) Circle the number that is not a multiple of 6.

16, 24, 36, 42, 54

- 4) Work out the perimeter of this scalene triangle.



- 5) Name the 2D shape from its properties:

- One pair of parallel sides
- 4 sides in total
- Two sets of equal angles
- One pair of sides equal length

## Week 5: Day 3 Answers

- 1) Are these units of length, area or neither? **neither**

$m^3$

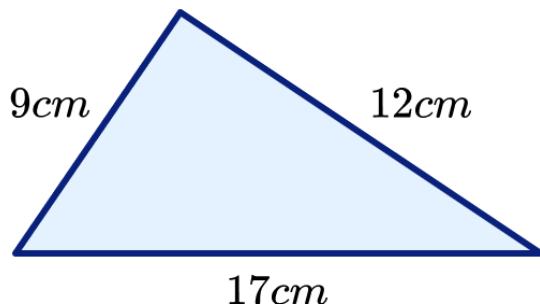
- 2) Use  $<$ ,  $>$  or  $=$  to fill the box.

0.00121 **>** 0.00111

- 3) Circle the number that is not a multiple of 6.

**16**, 24, 36, 42, 54

- 4) Work out the perimeter of this scalene triangle. **38cm**



- 5) Name the 2D shape from its properties:

- One pair of parallel sides
- 4 sides in total
- Two sets of equal angles
- One pair of sides equal length

**Isosceles trapezium**

## Week 5: Day 4

- 1) Are these units of length, area or neither?

km

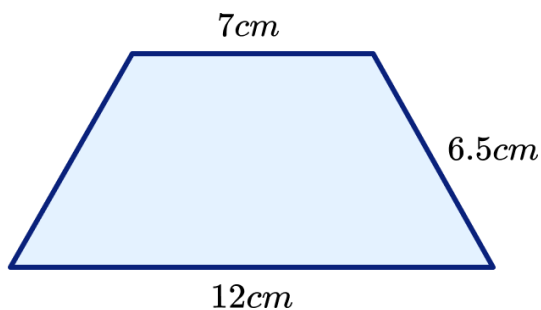
- 2) Use  $<$ ,  $>$  or  $=$  to fill the box.

2.801  2.81

- 3) Circle the number that is not a multiple of 9.

18, 36, 44, 54, 63

- 4) Work out the perimeter of this isosceles trapezium.



- 5) Name the 2D shape from its properties:

- 4 equal sides
- Opposite angles are equal
- Opposite sides are parallel



## Week 5: Day 4 Answers

- 1) Are these units of length, area or neither? **length**

km

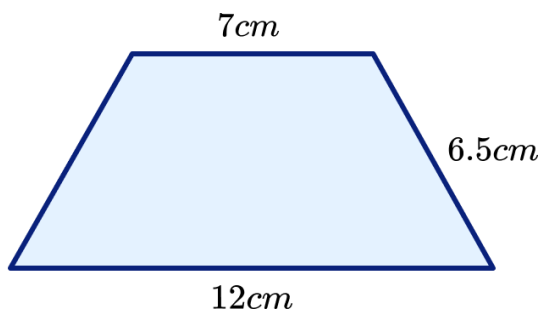
- 2) Use  $<$ ,  $>$  or  $=$  to fill the box.

2.801  2.81

- 3) Circle the number that is not a multiple of 9.

18, 36, **44**, 54, 63

- 4) Work out the perimeter of this isosceles trapezium. **32cm**



- 5) Name the 2D shape from its properties:

- 4 equal sides
- Opposite angles are equal
- Opposite sides are parallel

**rhombus**

## Week 5: Day 5

- 1) Are these units of length, area or neither?

$\text{km}^2$

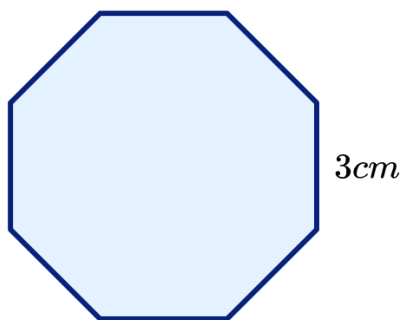
- 2) Use  $<$ ,  $>$  or  $=$  to fill the box.

10.01  10.11

- 3) Circle the number that is not a multiple of 7.

21, 28, 35, 44, 56

- 4) This is a regular octagon. What is its perimeter?



- 5) Name the 2D shape from its properties:

- 2 pairs of equal sides
- Opposite angles are equal
- Opposite sides are parallel

## Week 5: Day 5 Answers

- 1) Are these units of length, area or neither? **area**  
 $\text{km}^2$

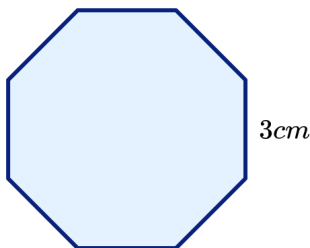
- 2) Use  $<$ ,  $>$  or  $=$  to fill the box.

10.01  10.11

- 3) Circle the number that is not a multiple of 7.

21, 28, 35, **44**, 56

- 4) This is a regular octagon. What is its perimeter? **24cm**



- 5) Name the 2D shape from its properties:

- 2 pairs of equal sides
- Opposite angles are equal
- Opposite sides are parallel

**parallelogram**

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