

Week 8

This week in a nutshell:

The questions on area are a direct progression from what has been seen so far, so encouraging students to check back through their notes may be helpful to answer these questions. Questions 1, 2 and 3 test key skills and are designed to build and maintain confidence. Developing fluency with key skills such as these will allow students access to more complex and more conceptually difficult material.

Question 1: Writing numbers using words

Question 2: Written division

Question 3: Letters as numbers

Question 4: Area of compound shapes

Question 5: Using area to find a missing length

This week's ideas for class discussion include:

Question 1: **Writing numbers using words**

- How important is spelling when writing numbers as words?

Question 2: **Written division**

- How many ways of doing written division do you know now?

Question 3: **Letters as numbers**

- How has your confidence with algebra changed so far this year?

Question 4: **Area of compound shapes**

- How do we use our knowledge of simple shapes when looking at compound shapes?
- Is there a "correct" way of splitting up a compound shape?

Question 5: **Using area to find a missing length**

- In what real life situations is finding missing lengths important?

Week 8: Day 1

- 1) Write using words:

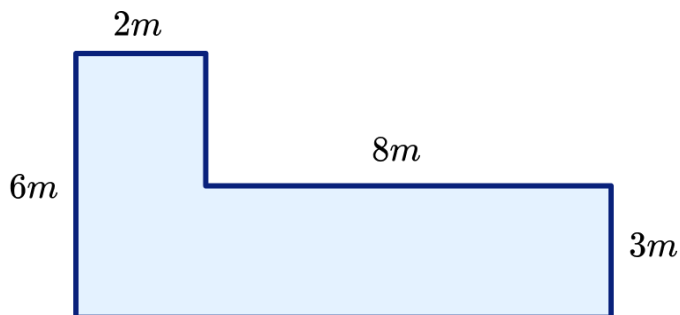
207

- 2) Divide 343 by 7
-

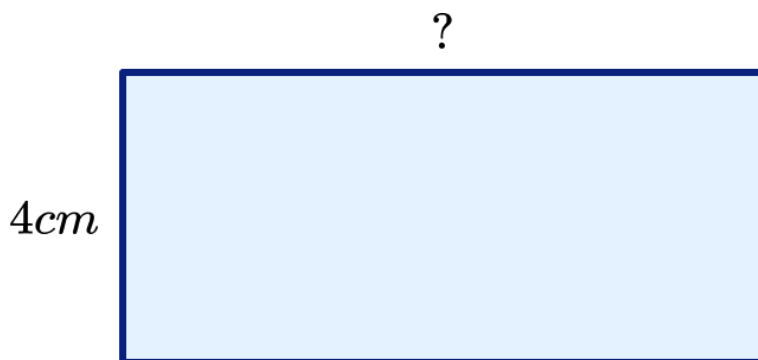
- 3) If $a=3$ and $b=4$, what is

$$a + b =$$

- 4) Work out the area of the shape below.



- 5) The area of this rectangle is 28cm^2 . Find the missing side length.



Week 8: Day 1 Answers

- 1) Write using words:

207 **Two hundred and seven**

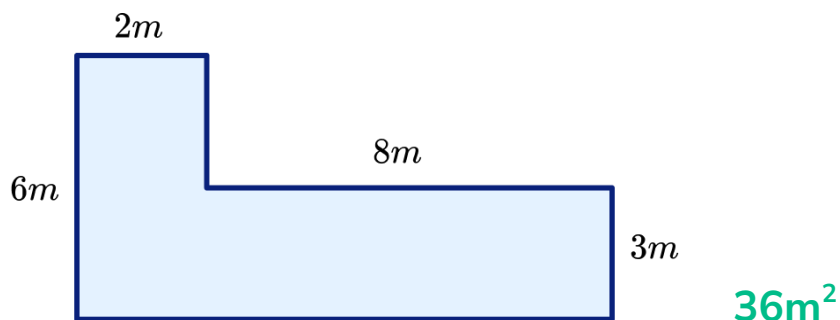
- 2) Divide 343 by 7

49

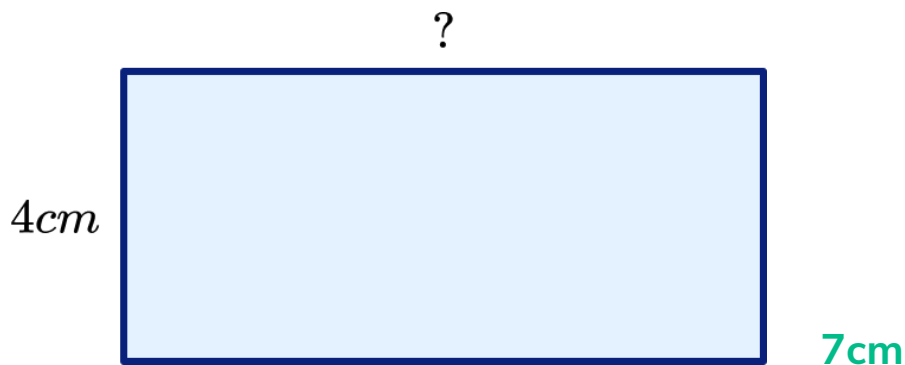
- 3) If $a=3$ and $b=4$, what is

$$a + b = \mathbf{7}$$

- 4) Work out the area of the shape below.



- 5) The area of this rectangle is $28cm^2$. Find the missing side length.



Week 8: Day 2

- 1) Write using words:

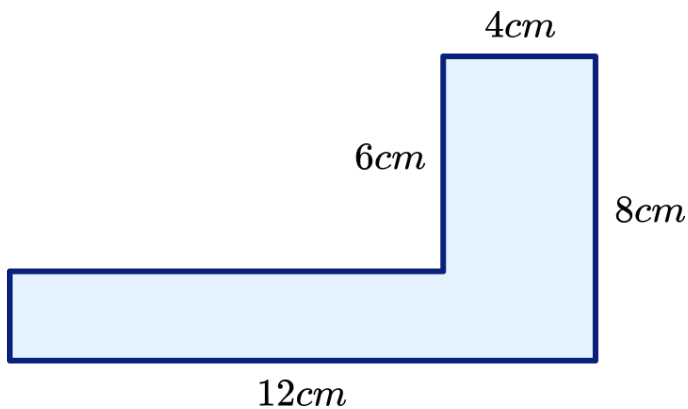
3009

- 2) Share 544 into 8 equal groups.
-

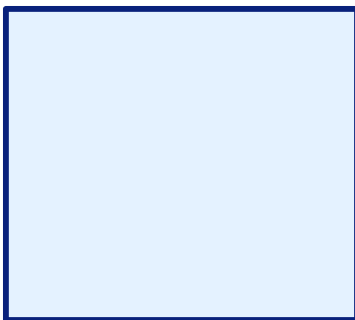
- 3) If $a=7$ and $b=4$, what is

$ab =$

- 4) Work out the area of the shape below.



- 5) This square has an area of 64m^2 . What is the length of one side?



Week 8: Day 2 Answers

- 1) Write using words:

3009 **Three thousand and nine**

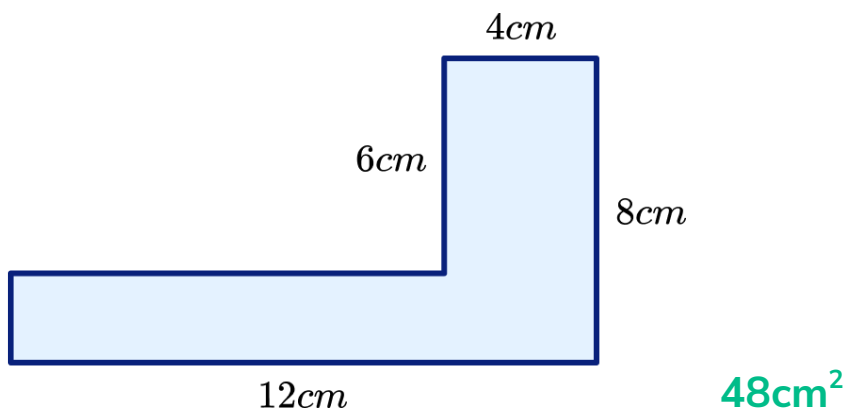
- 2) Share 544 into 8 equal groups.

68

- 3) If $a=7$ and $b=4$, what is

$$ab = \mathbf{28}$$

- 4) Work out the area of the shape below.



- 5) This square has an area of 64m². What is the length of one side?



Week 8: Day 3

- 1) Write using words:

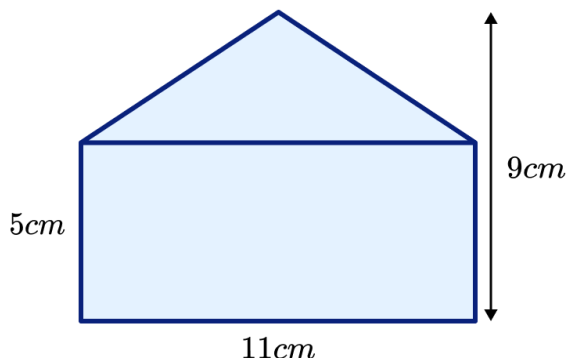
1543

- 2) Find the quotient when 279 is divided by 9

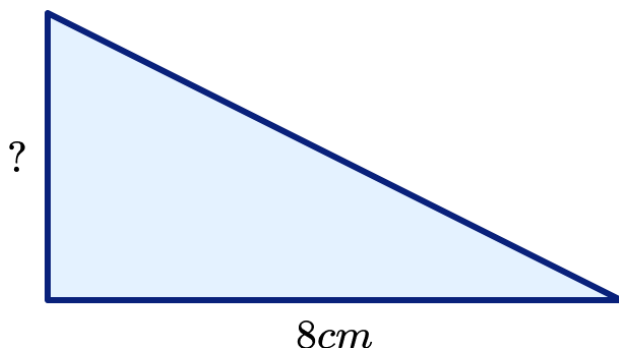
- 3) If $a=2$ and $b=5$, what is

$$a - b =$$

- 4) Work out the area of the shape below.



- 5) The area of this triangle is 24cm^2 . Work out the missing side length



Week 8: Day 3 Answers

- 1) Write using words:

1543 **One thousand five hundred and forty three**

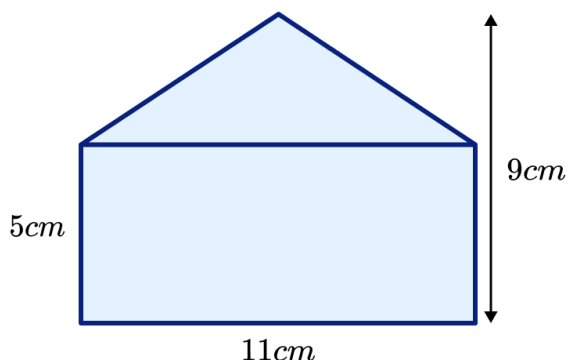
- 2) Find the quotient when 279 is divided by 9

31

- 3) If $a=2$ and $b=5$, what is

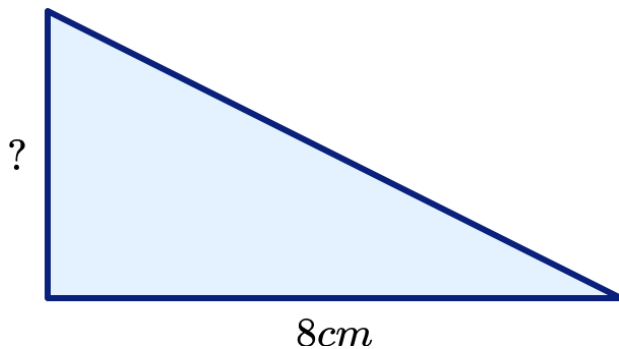
$$a - b = \mathbf{-3}$$

- 4) Work out the area of the shape below.



77cm²

- 5) The area of this triangle is 24cm². Work out the missing side length



6cm

Week 8: Day 4

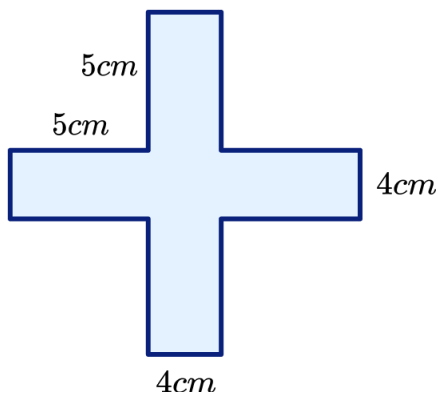
- 1) Write using words:

50 360

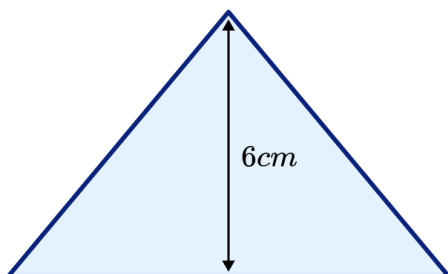
- 2) Find the quotient and remainder when 378 is divided by 12

- 3) If $a=5$ and $b=2$, what is
 $2a + 3b =$

- 4) Work out the area of the shape below.



- 5) The area of this triangle is 30cm^2 . Work out the length of the base.



Week 8: Day 4 Answers

- 1) Write using words:

50 360 **Fifty thousand, three hundred and sixty**

- 2) Find the quotient and remainder when 378 is divided by 12

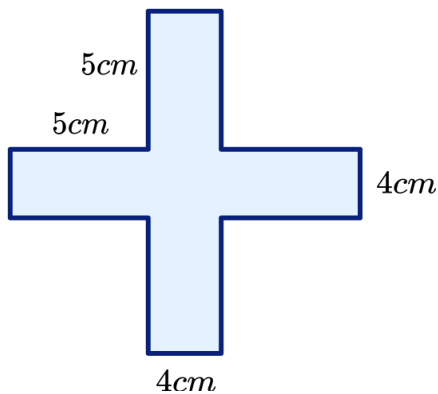
31 r6

- 3) If $a=5$ and $b=2$, what is

$$2a + 3b = 10 + 6$$

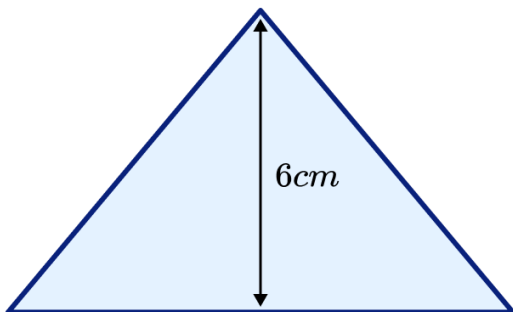
$$= 16$$

- 4) Work out the area of the shape below.



96cm^2

- 5) The area of this triangle is 30cm^2 . Work out the length of the base.



10cm

Week 8: Day 5

- 1) Write using words:

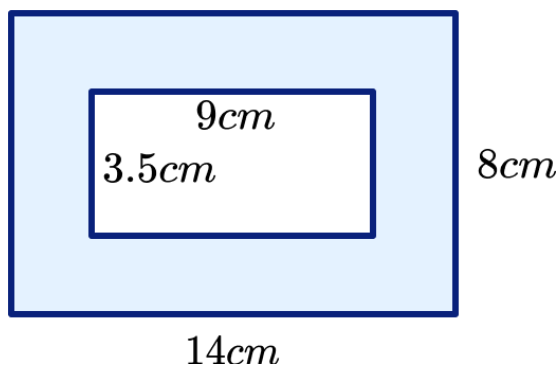
6708

- 2) Find the quotient and remainder when 623 is divided by 13

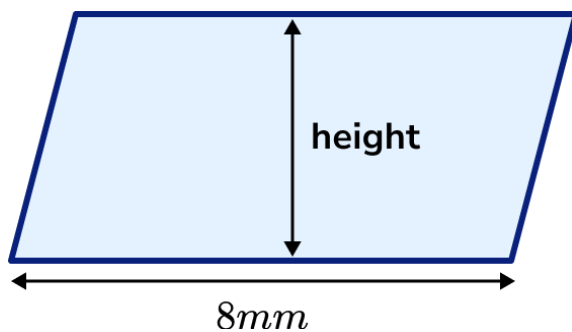
- 3) If $a=4$ and $b=2$, what is

$$a - 2b =$$

- 4) Work out the area of the shape below that has been shaded.



- 5) The area of this parallelogram is 32mm^2 . What is its height?



Week 8: Day 5 Answers

- 1) Write using words:

6708 **Six thousand, seven hundred and eight**

- 2) Find the quotient and remainder when 623 is divided by 13

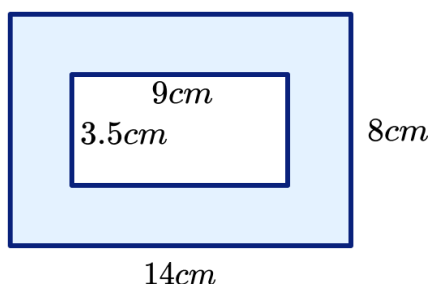
47 r12

- 3) If $a=4$ and $b=2$, what is

$$a - 2b = 4 - 4$$

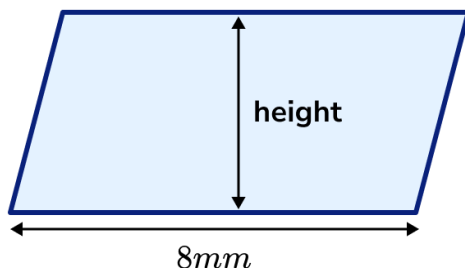
$$= 0$$

- 4) Work out the area of the shape below that has been shaded.



80.5cm^2

- 5) The area of this parallelogram is 32mm^2 . What is its height?



4mm

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