

Week 5

This week in a nutshell:

The topics here have been seen before in different ways. The repetition is for confidence, fluency and recognition of how to apply methods. If needed, students could have access to their books to look back at how they have previously attempted such questions.

Question 1: Using ratio

Question 2: Place value

Question 3: Multiplicative reasoning

Question 4: Using area

Question 5: Reading coordinates

This week's ideas for class discussion include:

Question 1: **Using ratio**

- What previously developed skills are you using when working with ratio?

Question 2: **Place value**

- Computer science uses a different base for place value; which one?
- Are there any other examples of place value systems you know?

Question 3: **Multiplicative reasoning**

- What do we mean by multiplicative?

Question 4: **Using area**

- In what ways does problem solving with area use aspects of geometry, numeracy and measurement?

Question 5: **Reading coordinates**

- Why does the order we consider coordinates matter?

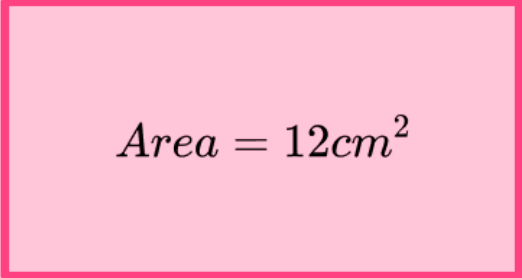
Week 5: Day 1

- 1) Work out the larger amount when 54 is shared in the ratio 5:1

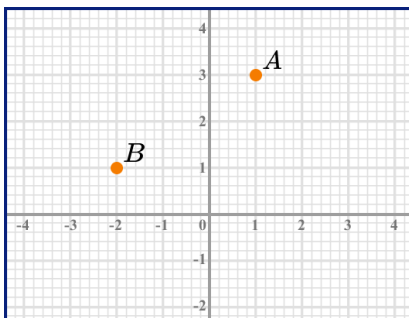
- 2) What is the value of the 7 in 9072?

- 3) Three cans of coke cost £1.50. How much is it to buy five cans of coke?

- 4) Given the area of this rectangle, what integer values could the sides be?


$$\text{Area} = 12\text{cm}^2$$

- 5) Write down the coordinates of points A and B.



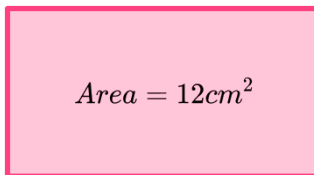
Week 5: Day 1 Answers

1) Work out the larger amount when 54 is shared in the ratio 5:1 **45**

2) What is the value of the 7 in 9072? **70 (seventy)**

3) Three cans of coke cost £1.50. How much is it to buy five cans of coke?
£2.50

4) Given the area of this rectangle, what integer values could the sides be?

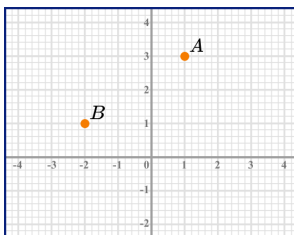


1cm and 12cm

2cm and 6cm

3cm and 4cm

5) Write down the coordinates of points A and B.



A(1, 3), B(-2, 1)

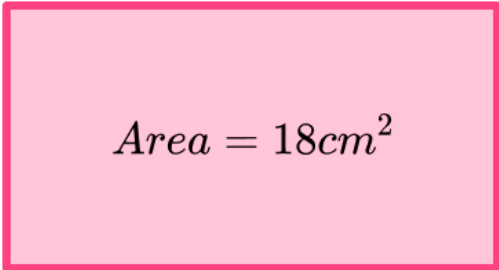
Week 5: Day 2

- 1) Work out the smaller amount when 123cm is shared in the ratio 2:1

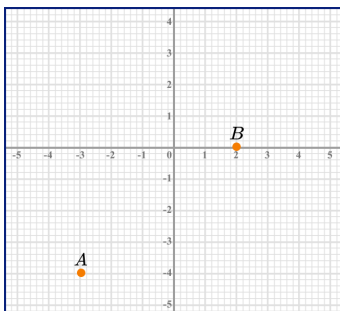
- 2) What is the value of the 8 in 24891?

- 3) Two bottles of water cost €2.40. How much is it to buy three bottles of water?

- 4) Given the area of this rectangle, what integer values could the sides be?


$$\text{Area} = 18\text{cm}^2$$

- 5) Write down the coordinates of points A and B.



Week 5: Day 2 Answers

- 1) Work out the smaller amount when 123cm is shared in the ratio 2:1

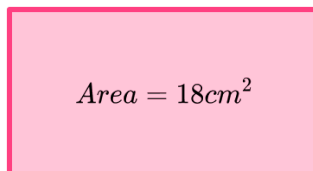
41cm

- 2) What is the value of the 8 in 24891?

800 (eight hundred)

- 3) Two bottles of water cost €2.40. How much is it to buy three bottles of water? €3.60

- 4) Given the area of this rectangle, what integer values could the sides be?

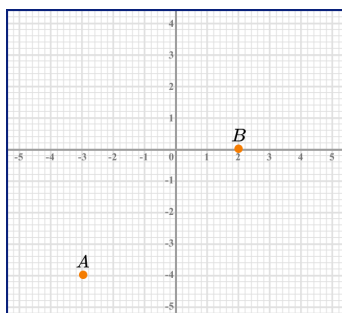


1cm and 18cm

2cm and 9cm

3cm and 6cm

- 5) Write down the coordinates of points A and B.



A(-3, -4) B(2, 0)

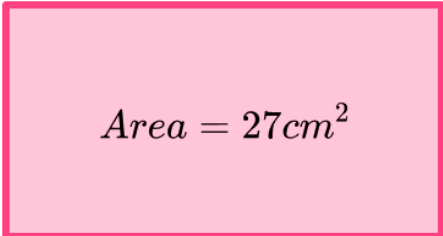
Week 5: Day 3

- 1) Work out the larger amount when 75 is shared in the ratio 2:3

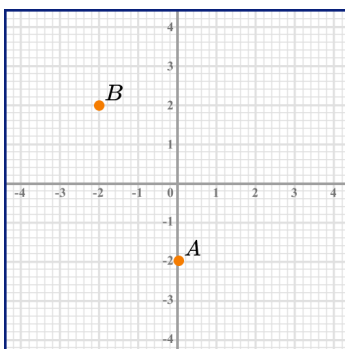
- 2) What is the value of the 1 in 86.15?

- 3) Five bags of apples cost £6.25 How much is it to buy three bags of apples?

- 4) Given the area of this rectangle, what integer values could the sides be?


$$Area = 27cm^2$$

- 5) Write down the coordinates of points A and B.



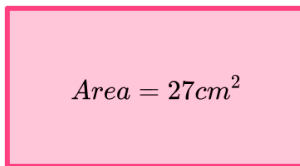
Week 5: Day 3 Answers

1) Work out the larger amount when 75 is shared in the ratio 2:3 **45**

2) What is the value of the 1 in 86.15? **0.1 (one tenth)**

3) Five bags of apples cost £6.25 How much is it to buy three bags of apples? **£3.75**

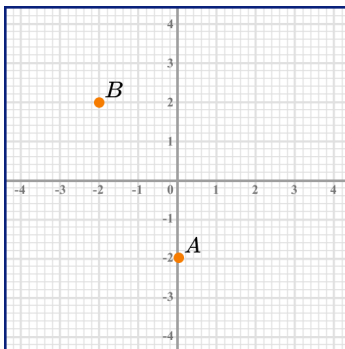
4) Given the area of this rectangle, what integer values could the sides be?



1cm and 27cm

3cm and 9cm

5) Write down the coordinates of points A and B.



A(0, -2) B(-2, 2)

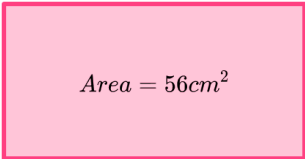
Week 5: Day 4

1) Work out the smaller amount when 42 is shared in the ratio 4:3

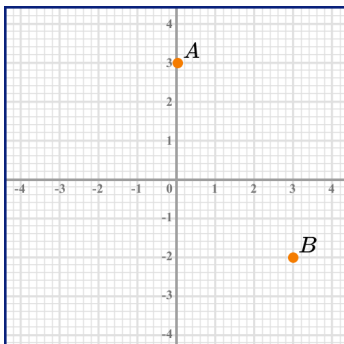
2) What is the value of the 9 in 109073?

3) Eight pens cost £3.76. How much is it to buy twelve pens?

4) Given the area of this rectangle, what integer values could the sides be?


$$\text{Area} = 56\text{cm}^2$$

5) Write down the coordinates of points A and B.



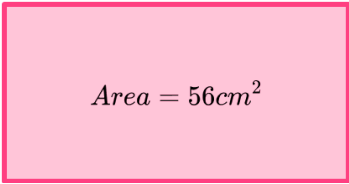
Week 5: Day 4 Answers

1) Work out the smaller amount when 42 is shared in the ratio 4:3 **18**

2) What is the value of the 9 in 109073? **9000 (nine thousand)**

3) Eight pens cost £3.76. How much is it to buy twelve pens? **£5.64**

4) Given the area of this rectangle, what integer values could the sides be?


$$\text{Area} = 56\text{cm}^2$$

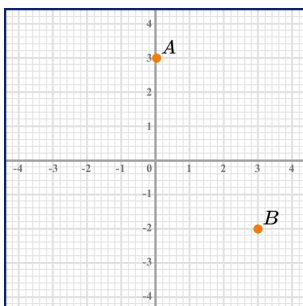
1cm and 56cm

2cm and 28cm

4cm and 14cm

7cm and 8cm

5) Write down the coordinates of points A and B.



A(0, 3) B(3, -2)

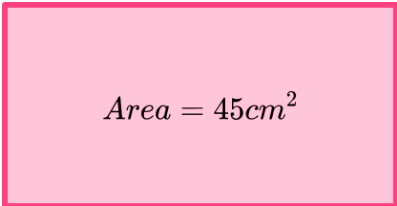
Week 5: Day 5

- 1) Work out the larger amount when £72 is shared in the ratio 2:7:1

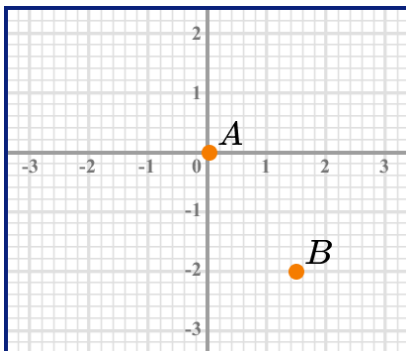
- 2) What is the value of the 3 in 29.031?

- 3) Five pairs of jeans cost £60.75. How much is it to buy two pairs of jeans?

- 4) Given the area of this rectangle, what integer values could the sides be?

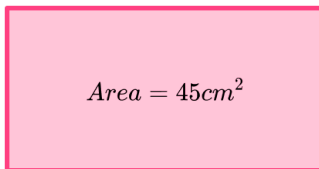

$$\text{Area} = 45\text{cm}^2$$

- 5) Write down the coordinates of points A and B.



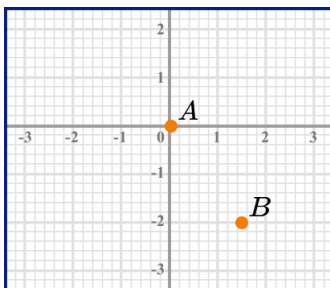
Week 5: Day 5 Answers

- 1) Work out the larger amount when £72 is shared in the ratio 2:7:1 **£50.40**
- 2) What is the value of the 3 in 29.031? **0.03 (three hundredths)**
- 3) Five pairs of jeans cost £60.75. How much is it to buy two pairs of jeans?
£24.30
- 4) Given the area of this rectangle, what integer values could the sides be?



1cm and 45cm
3cm and 15cm
5cm and 9cm

- 5) Write down the coordinates of points A and B.



A(0, 0) B(1.5, -2)

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