

Section 1

Use these clues to find the number:

- This is a 7-digit number.
- 3 of the digits are repeated.
- The number is less than three million.
- The millions digit is even and unique in this number.
- Two of the digits have no value.
- The hundred thousands digit is eight times the ones digit.

Section 2

Find the missing numbers in this calculation:

5	0		7	
x		2		
4	5	6	9	3
1	0	1	5	4
1	4	7	2	3

Section 3

A library has 2498 books. 1134 are fiction books. A quarter of the non-fiction books are about sport. 68 of these are on loan, and 267 are in the library. The remaining sports books are missing. How many sports books are missing?

Section 4

Calculate:

$$\frac{3}{5} \div 2 = \boxed{}$$

$$\frac{3}{4} \div 4 = \boxed{}$$

Section 5

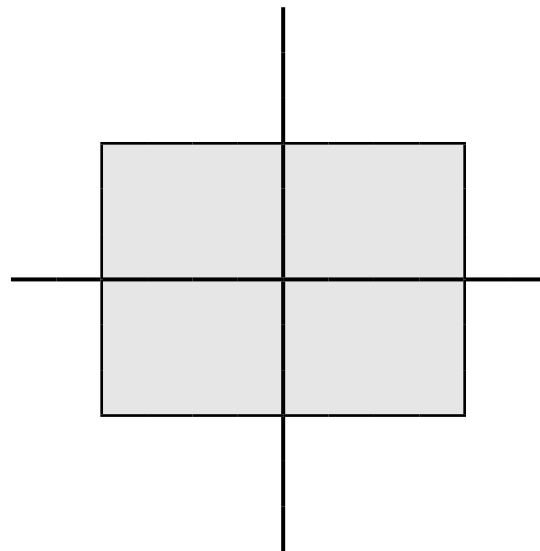
25% of a class are wearing trainers. One third of those not wearing trainers are boys. What percentage of the whole class are girls not wearing trainers?

Section 6

A builder needs 4 equal lengths of timber, each 0.75 m. Timber is sold in lengths of 2400 mm. How many lengths are needed? Explain what could be left.

Section 7

Write possible missing coordinates for this rectangle.



Section 8

a and **b** are whole numbers between 3 and 8. Write all the calculations showing the possible values of **a** and **b** where:

$$2a + b = 15$$

Year 6 Maths Activity Mat: 5

Answers

Section 1

Use these clues to find the number:

- This is a 7-digit number.
- 3 of the digits are repeated.
- The number is less than three million.
- The millions digit is even and unique in this number.
- Two of the digits have no value.
- The hundred thousands digit is eight times the ones digit.

2 801 801

Section 2

Find the missing numbers in this calculation:

5	0	7	7		
x		2	9		
4	5	6	9	3	
1	0	1	5	4	0
1	4	7	2	3	3

Section 3

A library has 2498 books. 1134 are fiction books. A quarter of the non-fiction books are about sport. 68 of these are on loan, and 267 are in the library. The remaining sports books are missing. How many sports books are missing?

6 books

Section 4

Calculate:

$$\frac{3}{5} \div 2 = \frac{3}{10}$$

$$\frac{3}{4} \div 4 = \frac{3}{16}$$

Section 5

25% of a class are wearing trainers. One third of those not wearing trainers are boys. What percentage of the whole class are girls not wearing trainers?

50%

Section 6

A builder needs 4 equal lengths of timber, each 0.75 m. Timber is sold in lengths of 2400 mm. How many lengths are needed? Explain what could be left.

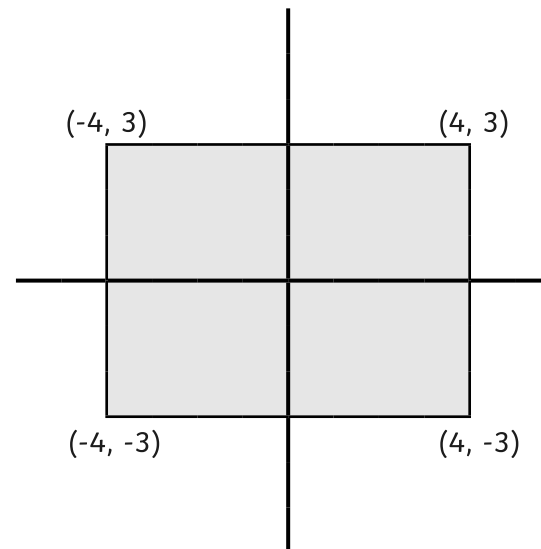
2 lengths needed

2 smaller lengths will be left: either 150mm and 1650, or 2 equal lengths of 900mm

Section 7

Write possible missing coordinates for this rectangle.

Various Answers. E.g.



Section 8

a and **b** are whole numbers between 3 and 8. Write all the calculations showing the possible values of **a** and **b** where:

$$2a + b = 15$$

a = 4, b = 7; a = 5, b = 5