Year 6 Maths Activity Mat

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	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?

Section 4

Calculate:

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

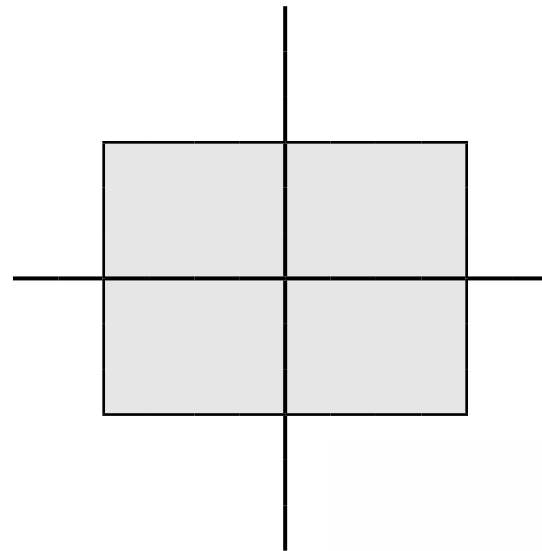$\frac{3}{4} \div 4 =$

Section 5

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

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:

$2a + b = 15$

Section 1

Use these clues to find the number:

- This is a 7-digit number.
- 3 of the digits are repeated.
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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 joggers. One third of those not wearing joggers are boys. What percentage of the whole class are girls not wearing joggers?

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.
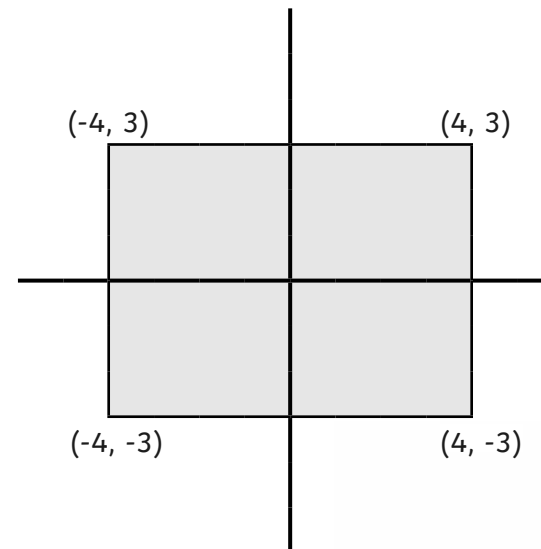
2 lengths needed

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.

(-4, 3)   (4, 3)

(-4, -3)   (4, -3)

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