

Section 1

Use these clues to find the number:

- It is less than 1 000.
- It is a multiple of 5.
- All of the digits are odd.
- The first and last digits add up to 12.
- The tens digit is the largest digit.

Section 2

Calculate:

$$\begin{array}{r} 1042 \\ \times 13 \\ \hline \\ \hline \end{array}$$

Section 3

A school library has 2498 books. 329 books are on loan, and 1983 are in the library. The rest are missing. How many books are missing?

Section 4

Calculate:

$$\frac{1}{3} \div 2 = \boxed{}$$

$$\frac{1}{2} \div 3 = \boxed{}$$

Section 5

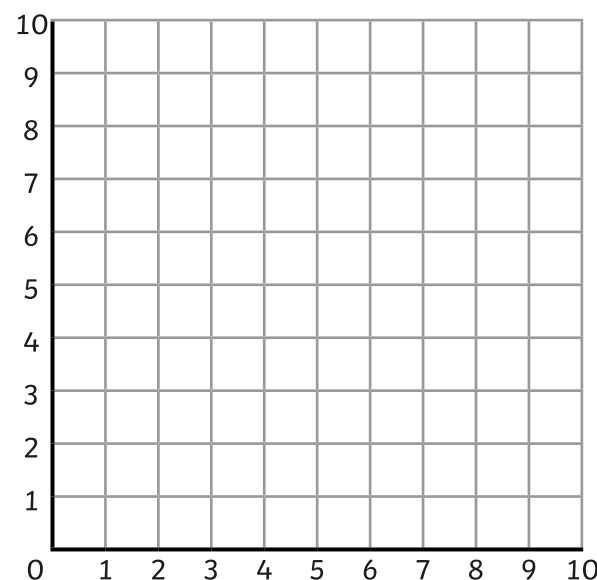
50% of a class are boys. What fractions of the class are boys?

Section 6

A piece of string 3m long is cut into 12 equal pieces. How long is each piece in metres?

Section 7

Draw a rectangle on this coordinates grid using the coordinates: (1,2) (9,2) (1,5) (9,5).



Section 8

a and **b** are whole numbers between 3 and 7. Write all the calculations showing the possible values of **a** and **b** where:

$$a + b = 10$$

Year 6 Maths Activity Mat: 5

Answers

Section 1

Use these clues to find the number:

- It is less than 1 000.
- It is a multiple of 5.
- All of the digits are odd.
- The first and last digits add up to 12.
- The tens digit is the largest digit.

795

Section 2

Calculate:

$$\begin{array}{r}
 1042 \\
 \times 13 \\
 \hline
 3126 \\
 10420 \\
 \hline
 13546
 \end{array}$$

Section 3

A school library has 2498 books. 329 books are on loan, and 1983 are in the library. The rest are missing. How many books are missing?

186 books

Section 4

Calculate:

$$\frac{1}{3} \div 2 = \frac{1}{6}$$

$$\frac{1}{2} \div 3 = \frac{1}{6}$$

Section 5

50% of a class are boys. What fractions of the class are boys?

$\frac{1}{2}$

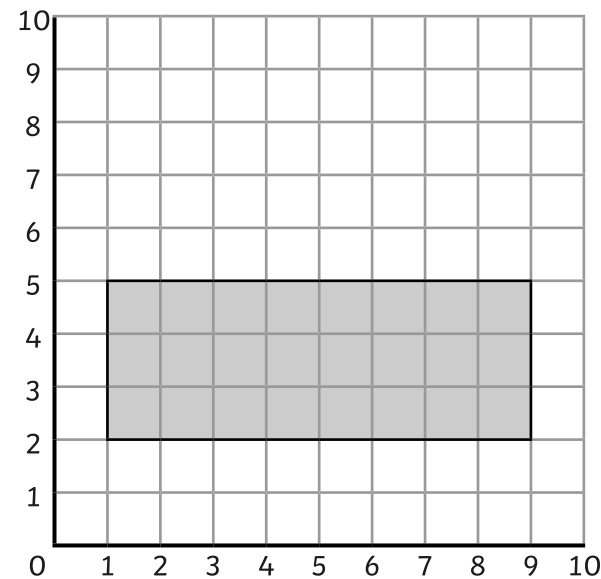
Section 6

A piece of string 3m long is cut into 12 equal pieces. How long is each piece in metres?

0.25m

Section 7

Draw a rectangle on this coordinates grid using the coordinates: (1,2) (9,2) (1,5) (9,5).



Section 8

a and **b** are whole numbers between 3 and 7. Write all the calculations showing the possible values of **a** and **b** where:

$$a + b = 10$$

a = 6, b = 4,
a = 5, b = 5;
a = 4, b = 6

Year 6 Maths Activity Mat

5

Section 1

Use these clues to find the number:

- The number has 6 digits.
- The number is less than 300 000.
- 10 is a factor of the number.
- The hundred thousands and ten thousands digit are the same and are odd.
- The tens digit is a cube number and is one more than the thousands digit.
- The sum of the hundreds and the thousands digits is 10.

Section 2

Calculate:

$$\begin{array}{r} 4 \quad 2 \quad 8 \quad 1 \\ \times \quad \quad 2 \quad 3 \\ \hline \\ \hline \end{array}$$

Section 3

A library has 2498 books. 1134 are fiction. The rest are non-fiction. 272 of the non-fiction are on loan, and 1017 are in the library, and the rest are missing. How many non-fiction books are missing?

Section 4

Calculate:

$$\frac{1}{2} \div 5 = \boxed{}$$

$$\frac{3}{4} \div 5 = \boxed{}$$

Section 5

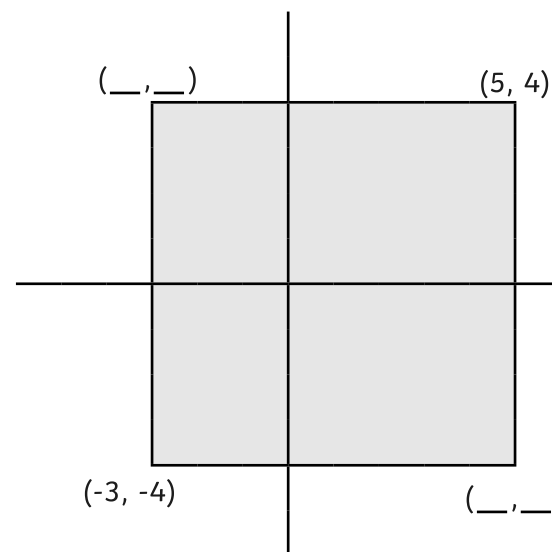
25% of a class are wearing trainers. What fraction are not wearing trainers?

Section 6

A length of timber is 2400mm long. It is divided into 8 equal pieces. How long is each piece in metres?

Section 7

Write the missing coordinates for this rectangle.



Section 8

a and **b** are whole numbers between 7 and 13. Write all the calculations showing the possible values of **a** and **b** where:

$$a + b = 20$$

Year 6 Maths Activity Mat: 5

Answers

Section 1

Use these clues to find the number:

- The number has 6 digits.
- The number is less than 300 000.
- 10 is a factor of the number.
- The hundred thousands and ten thousands digit are the same and are odd.
- The tens digit is a cube number and is one more than the thousands digit.
- The sum of the hundreds and the thousands digits is 10.

117 380

Section 2

Calculate:

4	2	8	1	
x		2	3	
<hr/>				
1	2	8	4	3
8	5	6	2	0
<hr/>				
9	8	4	6	3

Section 3

A library has 2498 books. 1134 are fiction. The rest are non-fiction. 272 of the non-fiction are on loan, and 1017 are in the library, and the rest are missing. How many non-fiction books are missing?

75 books

Section 4

Calculate:

$$\frac{1}{2} \div 5 = \frac{1}{10}$$

$$\frac{3}{4} \div 5 = \frac{3}{20}$$

Section 5

25% of a class are wearing trainers. What fraction are not wearing trainers?

$\frac{3}{4}$

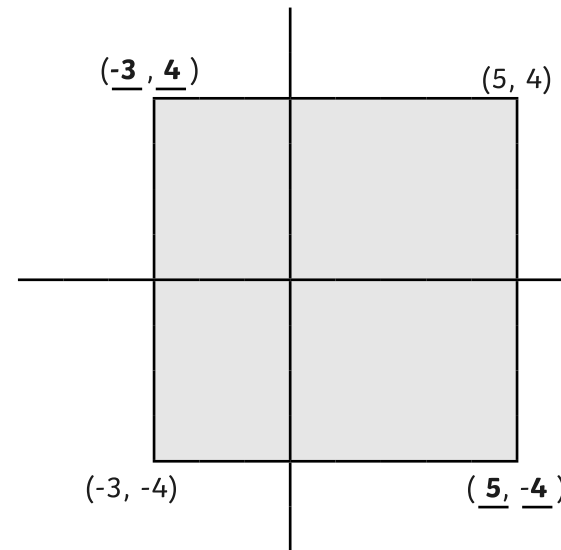
Section 6

A length of timber is 2400mm long. It is divided into 8 equal pieces. How long is each piece in metres?

0.3m

Section 7

Write the missing coordinates for this rectangle.



Section 8

a and **b** are whole numbers between 7 and 13. Write all the calculations showing the possible values of **a** and **b** where:

$$a + b = 20$$

a = 12, b = 8;
a = 11, b = 9;
a = 10, b = 10;
a = 9, b = 11;
a = 8, b = 12

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		
<hr/>				
4	5	6	9	3
1	0	1	5	4
<hr/>				
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

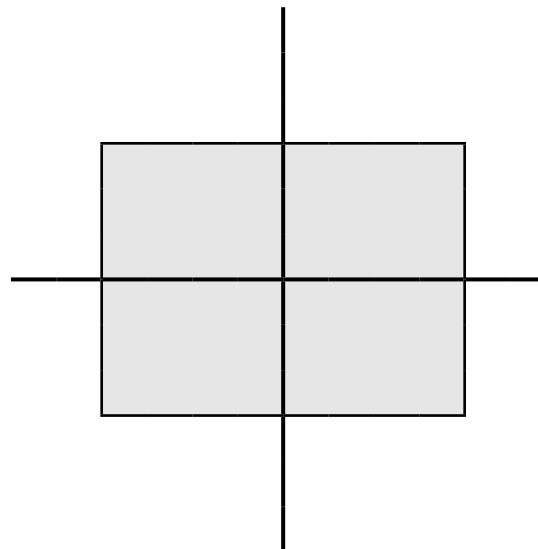
25% of a class are wearing trainers. One third of those not wearing trainers are boys. What percentage of the whole class are girls not wearing trainers?

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.

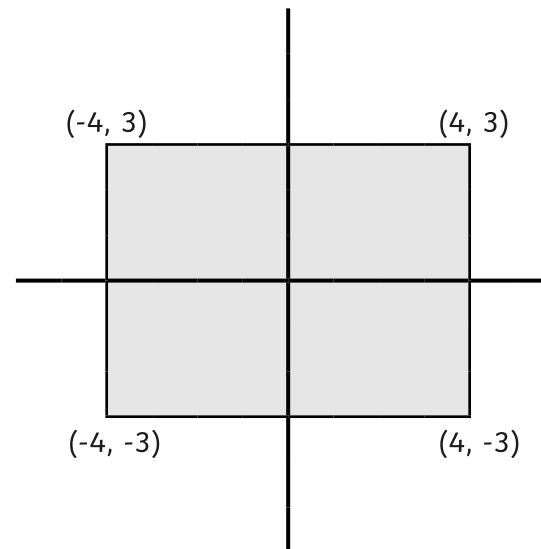
2 lengths needed

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