Year 6 Spring 1 Maths Activity Mat 5

Section 1

Use these clues to find the number:

- It is less than 1000.
- All the digits are even.
- The hundreds digit is half the tens digit.
- The ones digit is half way between the tens and hundreds digits.

Section 2

	1	2	5	8
×			1	4

Section 3

A collector has 387 coins on display, 298 coins in storage and buys a further 38 coins at an auction. How many coins does the collector have altogether?

Section 4

Calculate:

$\frac{1}{4} \div 2 =$

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

Section 5

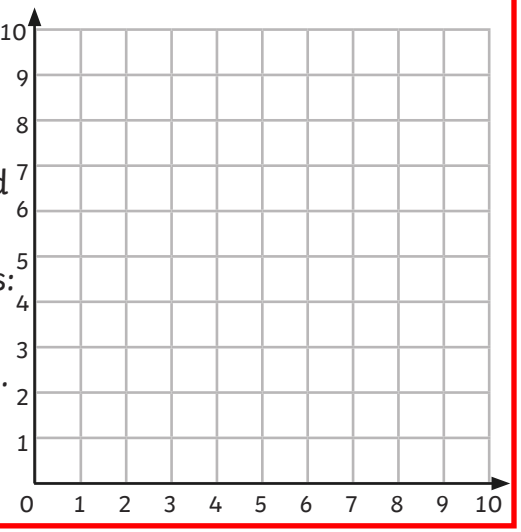
25% of a class sing in the choir. What fraction of the class sing in the choir?

Section 6

Two litres of juice is shared among eight people. How much juice do they each receive?

Section 7

Draw a rectangle on this grid using the coordinates: (4,2) (9,2) (4,9) (9,9).



Section 8

a and b are whole numbers between 6 and 12. Write all the calculations showing the possible values of a and b where: a+ b = 18

Year 6 Spring 1 Maths Activity Mat 5 - Answers

Section 1

Use these clues to find the number:

- It is less than 1000.
- All the digits are even.
- The hundreds digit is half the tens digit.
- The ones digit is half way between the tens and hundreds digits.

486

Section 2

	1^{1}	2^{2}	5^{3}	8
×			1	4
	5	0	3	2
1	2	5	8	0
1	7	6	1	2

1

Section 3

A collector has 387 coins on display, 298 coins in storage and buys a further 38 coins at an auction. How many coins does the collector have altogether?

723

Section 4

Calculate:

$\frac{1}{4} \div 2 = \frac{1}{8}$

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

Section 5

25% of a class sing in the choir. What fraction of the class sing in the choir?

$\frac{1}{4}$

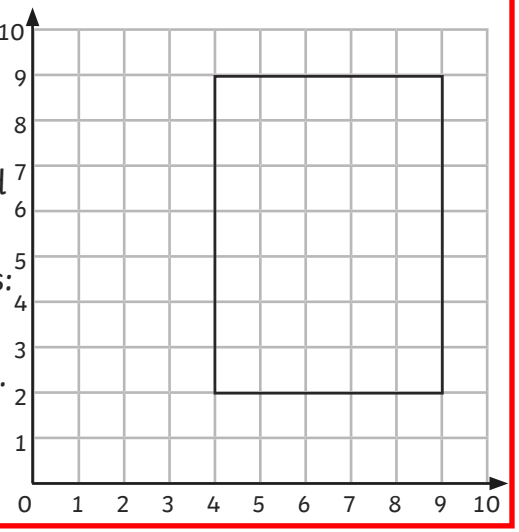
Section 6

Two litres of juice is shared among eight people. How much juice do they each receive?

250ml or 0.25l

Section 7

Draw a rectangle on this grid using the coordinates: (4,2) (9,2) (4,9) (9,9).



Section 8

a and b are whole numbers between 6 and 12. Write all the calculations showing the possible values of a and b where: a+ b = 18

a = 7, b = 11; a = 8, b = 10;
a = 9, b = 9; a = 10 b = 8;
a = 11 b = 7

Year 6 Spring 1 Maths Activity Mat 5

Section 1

Use these clues to find the number:

- The number has six digits.
- The number has the same number of hundred thousands, thousands, hundreds and ones.
- The number of ten thousands plus the number of tens equals one tenth of the total of the rest of the digits.

Section 2

	3	1	9	7
×			2	5

Section 3

A collector has 975 coins on display, 1076 coins in storage, and adds to the collection at an auction so the collection is now 2102 coins. How many coins did the collector buy at the auction?

Section 4

Calculate:

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

$\frac{7}{8} \div 3 =$

Section 5

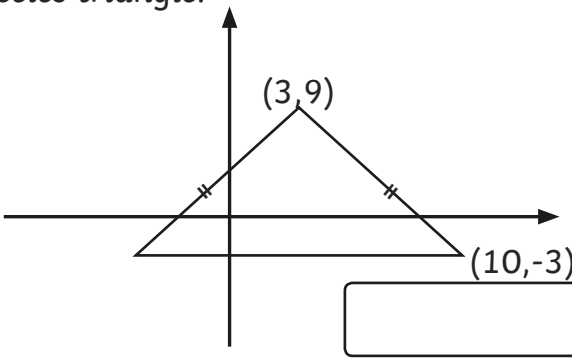
75% of a class are going on a residential visit. What fraction are not going on the residential visit?

Section 6

1.5l of lemonade is mixed with 300ml cartons of juice to make a fruity cocktail drink. The drink is shared among nine children. How much does each child receive?

Section 7

Write the missing coordinates for this isosceles triangle.



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: 2a + b = 28

Year 6 Spring 1 Maths Activity Mat 5 - Answers

Section 1

Use these clues to find the number:

- The number has six digits.
- The number has the same number of hundred thousands, thousands, hundreds and ones.
- The number of ten thousands plus the number of tens equals one tenth of the total of the rest of the digits.

515 515

Section 2

	3	1	9	7
×			2	5
1	5	9	8	5
6	3	9	4	0
7	9	9	2	5

4 3 (carried above the 1st row)

1 1 (carried below the 4th row)

Section 3

A collector has 975 coins on display, 1076 coins in storage, and adds to the collection at an auction so the collection is now 2102 coins. How many coins did the collector buy at the auction?

51 coins

Section 4

Calculate:

$\frac{1}{3} \div 3 = \frac{1}{9}$

$\frac{7}{8} \div 3 = \frac{7}{24}$

Section 5

75% of a class are going on a residential visit. What fraction are not going on the residential visit?

$\frac{1}{4}$

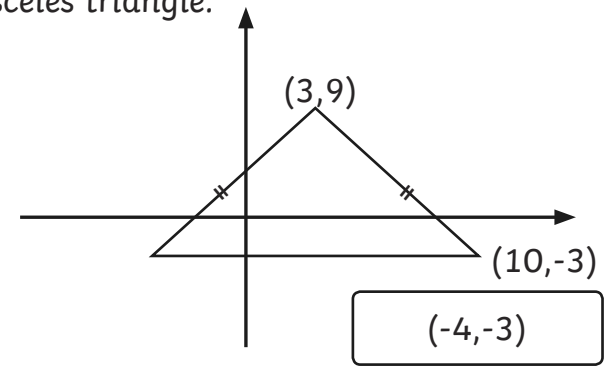
Section 6

1.5l of lemonade is mixed with one 300ml carton of juice to make a fruity cocktail drink. The drink is shared among nine children. How much does each child receive?

200ml or 0.2l

Section 7

Write the missing coordinates for this isosceles triangle.



(-4,-3)

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: 2a + b = 28

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

Year 6 Spring 1 Maths Activity Mat 5

Section 1

- Use these clues to find the number:
- This is a seven-digit number.
- There are only two different digits.
- No adjacent digits are the same.
- The total of the digits is 35.

Section 2

Find the missing numbers in this calculation.

		□	5	□	2
×				3	□
	4	6	0	7	□
1	9	□	4	6	0
2	□	3	5	3	□

Section 3

A collector has 2792 coins altogether. Half of the coins are on display. The collector buys more coins at an auction so that the coins on display are now 40% of the collection. How many coins are bought at the auction?

Section 4

Calculate:

$\frac{3}{8} \div 5 =$

$\frac{2}{5} \div 6 =$

Section 5

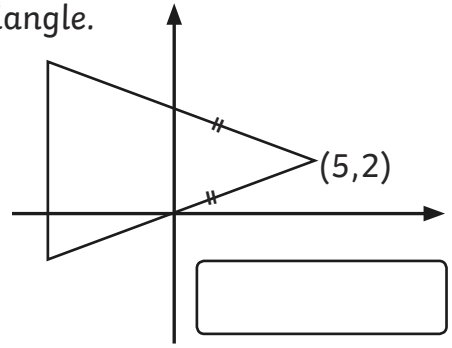
75% of a class are going on a residential visit. Three fifths of the children going on the visit are boys. What percentage of the children going on the visit are girls?

Section 6

Some lemonade and juice is mixed in the ratio 2:3. The juice is shared among 25 people, with each receiving 350ml. The juice is provided in 250ml cartons. How many cartons of juice are used to make the drink?

Section 7

Write possible missing coordinates for this isosceles triangle.



Section 8

a and b are whole numbers between 3 and 10. Write all the calculations showing the possible values of a and b where: 2a - b = 10

Year 6 Spring 1 Maths Activity Mat 5 - Answers

Section 1

- Use these clues to find the number:
- This is a seven-digit number.
- There are only two different digits.
- No adjacent digits are the same.
- The total of the digits is 35.

2 929 292

Section 2

Find the missing numbers in this calculation.

		~~1~~ 6	~~2~~ 5	~~1~~ 8	2
×				3	7
	4	6	0	7	4
1	9	7	4	6	0
2	4	3	5	3	4
	1	1		1	

Section 3

A collector has 2792 coins altogether. Half of the coins are on display. The collector buys more coins at an auction so that the coins on display are now 40% of the collection. How many coins are bought at the auction?

698 Coins

Section 4

Calculate:

$\frac{3}{8} \div 5 = \frac{3}{40}$

$\frac{2}{5} \div 6 = \frac{2}{30}$ or $\frac{1}{15}$

Section 5

75% of a class are going on a residential visit. Three fifths of the children going on the visit are boys. What percentage of the children going on the visit are girls?

40%

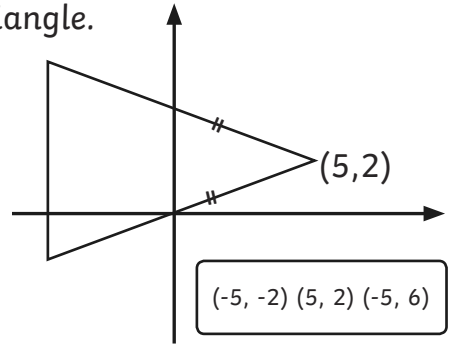
Section 6

Some lemonade and juice is mixed in the ratio 2:3. The juice is shared among 25 people, with each receiving 350ml. The juice is provided in 250ml cartons. How many cartons of juice are used to make the drink?

21 cartons

Section 7

Write possible missing coordinates for this isosceles triangle.



(-5, -2) (5, 2) (-5, 6)

Section 8

a and b are whole numbers between 3 and 10. Write all the calculations showing the possible values of a and b where: 2a - b = 10

a = 7, b = 4; a = 8, b = 6;

a = 9, b = 8