

# Year 6 Autumn 2 Maths Activity Mat 3

## Section 1

Round the following numbers to the nearest 1 million

7 231 723 →

2 500 000 →

6 499 999 →

## Section 2

Use this Carroll diagram to write the common factors of 12 and 15.

	Factors of 12	Not Factors of 12
Factors of 15		
Not factors of 15		

## Section 3

Double a number is 74.  
What is the number?

## Section 4

Calculate:

$$\frac{1}{3} \times \frac{1}{2} =$$

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

$$\frac{1}{5} \times \frac{1}{3} =$$

## Section 5

Calculate, writing the answer to one decimal place:

5	1	7	4						

## Section 6

Calculate the area and perimeter of the following rectangle.



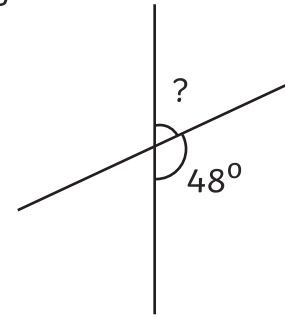
(Not to scale.)

Area =

Perimeter =

## Section 7

Calculate the unknown angle.



(Not to scale.)

## Section 8

Find 3 pairs of numbers that satisfy these equations:

$$a + b = 12$$

$$c - d = 9$$



# Year 6 Autumn 2 Maths Activity Mat 3

## Section 1

Round the following numbers to the nearest ten million

89 142 735 →

25 000 000 →

64 500 000 →

## Section 2

Use this Carroll diagram to write the common factors of 15 and 36.

	Factors of 15	Not Factors of 15
Factors of 36		
Not factors of 36		

## Section 3

What number, when doubled, is one third of 54?

## Section 4

Complete the missing denominators:

$$\frac{1}{2} \times \frac{1}{\square} = \frac{1}{12}$$

$$\frac{1}{\square} \times \frac{2}{3} = \frac{2}{15}$$

$$\frac{3}{4} \times \frac{2}{\square} = \frac{3}{10}$$

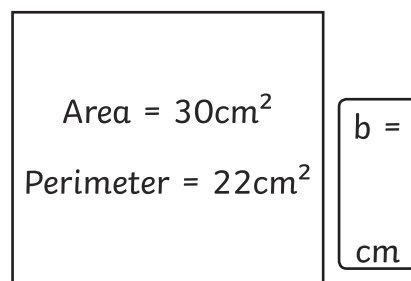
## Section 5

Calculate, writing the answer to two decimal places:

8	7	1	4				

## Section 6

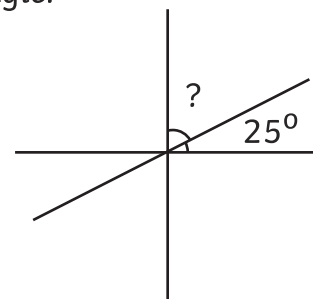
Write possible measurements for the sides of this rectangle.



(Not to scale.)

## Section 7

Calculate the unknown angle.



(Not to scale.)

## Section 8

Find 3 pairs of numbers that satisfy these equations:

$$a - 2b = 4$$

$$2c + 2d = 12$$

# Year 6 Autumn 2 Maths Activity Mat 3 Answers

## Section 1

Round the following numbers to the nearest ten million

89 142 735 → **90 000 000**

25 000 000 → **30 000 000**

64 500 000 → **60 000 000**

## Section 2

Use this Carroll diagram to write the common factors of 15 and 36.

	Factors of 15	Not Factors of 15
Factors of 36	<b>1, 3</b>	<b>2, 4, 6, 9, 12, 18, 36</b>
Not factors of 36	<b>5, 15</b>	<i>7, 8, 9, 10, 11, 13, 14, 16, 17, 19 - 35, 37 and higher</i>

**Numbers in italics are possible, but not necessary.**

## Section 3

What number, when doubled, is one third of 54?

**9**

## Section 4

Complete the missing denominators:

$$\frac{1}{2} \times \frac{1}{6} = \frac{1}{12}$$

$$\frac{1}{5} \times \frac{2}{3} = \frac{2}{15}$$

$$\frac{3}{4} \times \frac{2}{5} = \frac{3}{10}$$

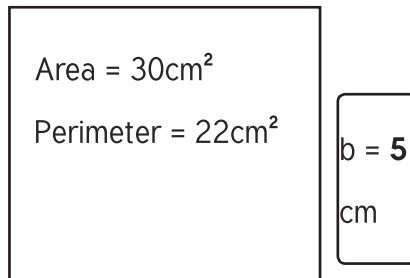
## Section 5

Calculate, writing the answer to two decimal places:

		<b>8</b>	<b>9</b>	<b>.2</b>	<b>5</b>				
8	7	1	4						

## Section 6

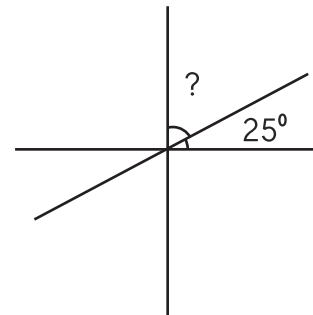
Write possible measurements for the sides of this rectangle.



(Not to scale.) **a = 6 cm**

## Section 7

Calculate the unknown angle.



(Not to scale.) **65°**

## Section 8

Find 3 pairs of numbers that satisfy these equations:

$$a - 2b = 4$$

$$2c + 2d = 12$$

**A range of answers. Here are some examples:**

**a = 6, b = 1; a = 8, b = 2; a = 10, b = 3; c = 1, d = 5; c = 2, d = 4; c = 3, d = 3**

# Year 6 Autumn 2 Maths Activity Mat 3

## Section 1

Round the following numbers to the nearest two million:

23 691 001 →

13 000 020 →

32 950 000 →

## Section 2

Draw a Carroll diagram to find the common factors of 16 and 45.

## Section 3

What number, when doubled, is 70% of the product of 12 and 7?

## Section 4

Calculate

$$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} =$$

$$\frac{1}{2} \times \frac{2}{3} \times \frac{3}{4} \times \frac{4}{5} \times \frac{5}{6} =$$

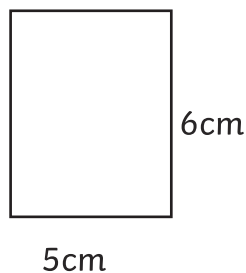
## Section 5

Calculate, writing the answer as a decimal rounded to 2 decimal places:

1	2	8	5	6					

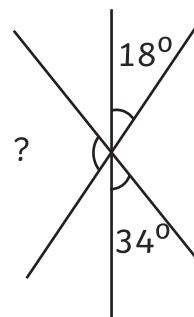
## Section 6

Draw (not to scale) a rectangle with the same area as this rectangle, but with a different perimeter. Label the length of the sides.



## Section 7

Calculate the unknown angle.



(Not to scale.)

## Section 8

Find 3 pairs of numbers that satisfy these equations:

$$a - 3b = 7$$

$$5c + 2d = 21$$

