

Year 6 Spring 1 Maths Activity Mat 3

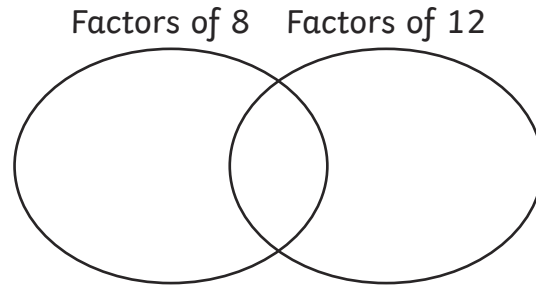
Section 1

Round the following numbers to the nearest 10 million.

4 500 000	<input type="text"/>
2478 375	<input type="text"/>
7499 000	<input type="text"/>

Section 2

Use this Venn Diagram to write the common factors of 8 and 12.



Section 3

Double a number is 42. What is the number?

Section 4

Write two unit fractions that multiply to give $\frac{1}{4}$.

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

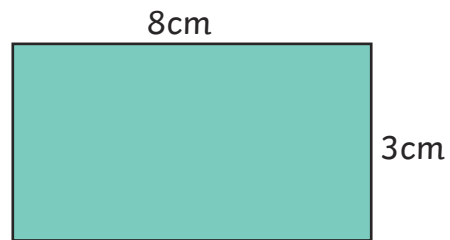
Section 5

Calculate, writing the answer as a decimal:

$$4 \overline{)146}$$

Section 6

Calculate the area and perimeter of the following rectangle.



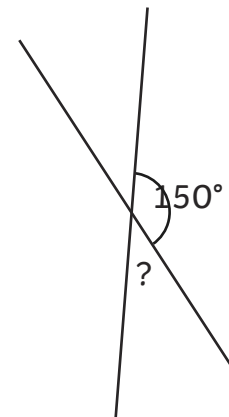
area =

perimeter =

*not to scale

Section 7

Calculate the unknown angle.



*not to scale

Section 8

Find three pairs of numbers that satisfy these equations:

$$a - b = 5$$

$$c + d = 12$$

Year 6 Spring 1 Maths Activity Mat 3 - Answers

Section 1

Round the following numbers to the nearest 10 million.

4 500 000

5 000 000

2478 375

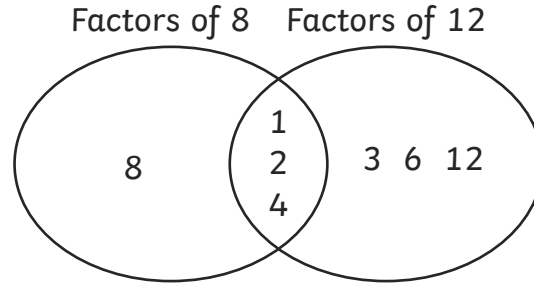
2 000 000

7499 000

7 000 000

Section 2

Use this Venn Diagram to write the common factors of 8 and 12.



Section 3

Double a number is 42. What is the number?

21

Section 4

Write two unit fractions that multiply to give $\frac{1}{4}$.

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

Section 5

Calculate, writing the answer as a decimal:

$$\begin{array}{r} 36.5 \\ 4 \overline{)146} \end{array}$$

Section 6

Calculate the area and perimeter of the following rectangle.



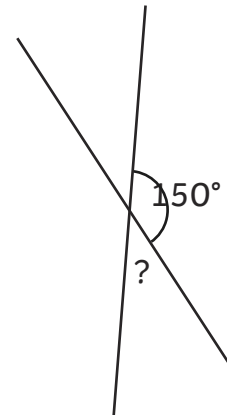
area = 24cm^2

perimeter = 22cm

*not to scale

Section 7

Calculate the unknown angle.



30°

*not to scale

Section 8

Find three pairs of numbers that satisfy these equations:

$$a - b = 5$$

$$c + d = 12$$

$$a = 6, b = 1; a = 7, b = 2;$$

$$a = 8, b = 3; c = 7, d = 5;$$

$$c = 8, d = 4; c = 9, d = 3$$

Year 6 Spring 1 Maths Activity Mat 3

Section 1

Round the following numbers to the nearest 10 000 000.

16 500 000

85 000 000

44 489 301

Section 2

Draw a Venn Diagram to show the common factors of 15 and 24.

Section 3

What number, when halved, is one sixth of 120?

Section 4

Write two unit fractions that multiply to give $\frac{1}{6}$.

$$\boxed{} \times \boxed{} = \frac{1}{6}$$

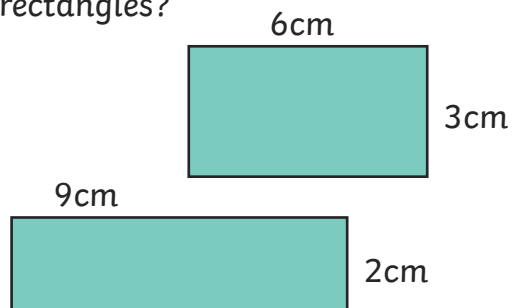
Section 5

Calculate, writing the answer as a decimal:

$$4 \overline{)673}$$

Section 6

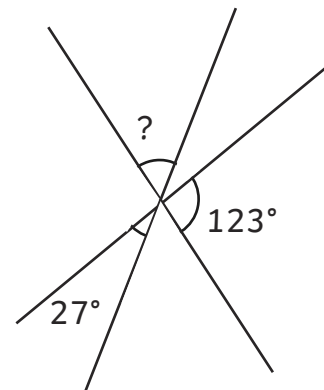
What do you notice about the area and perimeter of these two rectangles?



*not to scale

Section 7

Calculate the unknown angle.



*not to scale

Section 8

Find three pairs of numbers that satisfy these equations:

$$2a + b = 13$$

$$2c - d = 8$$

Year 6 Spring 1 Maths Activity Mat 3 - Answers

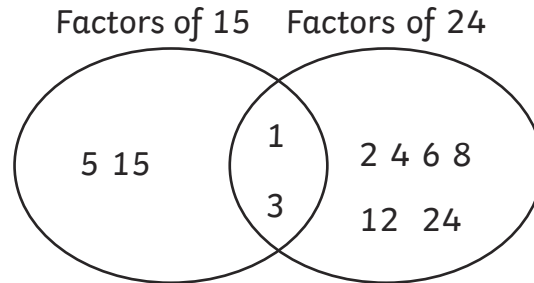
Section 1

Round the following numbers to the nearest 10 000 000.

16 500 000	20 000 000
85 000 000	90 000 000
44 489 301	40 000 000

Section 2

Draw a Venn Diagram to show the common factors of 15 and 24.



Section 3

What number, when halved, is one sixth of 120?

40

Section 4

Write two unit fractions that multiply to give $\frac{1}{6}$.

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

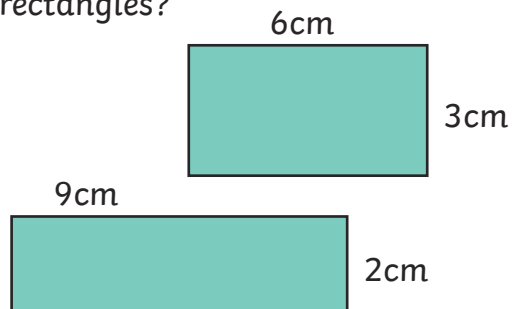
Section 5

Calculate, writing the answer as a decimal:

$$4 \overline{) 673} = 168.25$$

Section 6

What do you notice about the area and perimeter of these two rectangles?

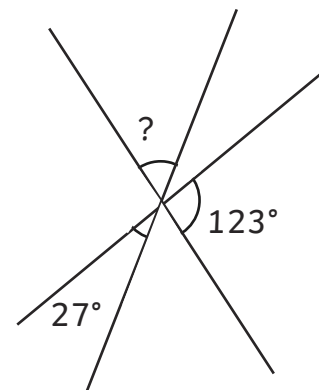


Same area 18cm^2 , different perimeter 22cm and 18cm

*not to scale

Section 7

Calculate the unknown angle.



30°

*not to scale

Section 8

Find three pairs of numbers that satisfy these equations:

$$2a + b = 13$$

$$2c - d = 8$$

$$a = 5, b = 3; a = 4, b = 5;$$

$$a = 3, b = 7; c = 5, d = 2;$$

$$c = 6, d = 4; c = 7, d = 6$$

Year 6 Spring 1 Maths Activity Mat 3

Section 1

Round the following numbers to the nearest 10 000 000.

18 451 907

72 500 000

22 250 000

Section 2

Draw a Venn Diagram to show the common factors of 9, 21, 36

Section 3

What number, when doubled, is a fifth of the difference between of 36 and 71?

Section 4

Write three unit fractions that multiply to give $\frac{1}{30}$.

$$\boxed{} \times \boxed{} \times \boxed{} = \frac{1}{30}$$

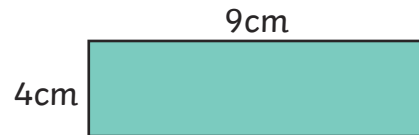
Section 5

Calculate, writing the answer as a decimal:

$$8 \overline{)831}$$

Section 6

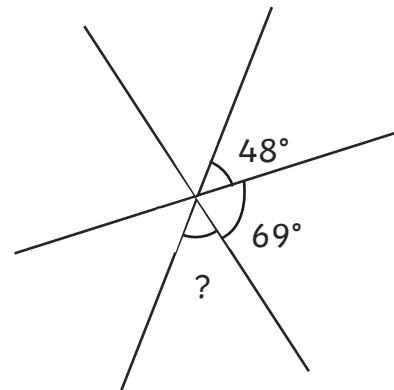
Draw (not to scale) a rectangle with the same area as this rectangle, but with a different perimeter. Label the sides.



*not to scale

Section 7

Calculate the unknown angle.



*not to scale

Section 8

Find three pairs of numbers that satisfy these equations:

$$3a + 2b = 15$$

$$3c - 2d = 10$$

Year 6 Spring 1 Maths Activity Mat 3

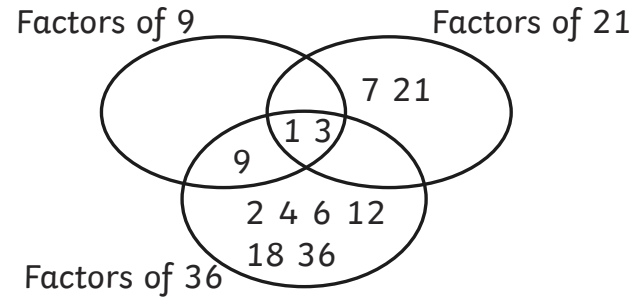
Section 1

Round the following numbers to the nearest 10 000 000.

18 451 907	20 000 000
72 500 000	70 000 000
22 250 000	20 000 000

Section 2

Draw a Venn Diagram to show the common factors of 9, 21, 36



Section 3

What number, when doubled, is a fifth of the difference between of 36 and 71?

3.5

Section 4

Write three unit fractions that multiply to give $\frac{1}{30}$.

$$\frac{1}{2} \times \frac{1}{3} \times \frac{1}{5} = \frac{1}{30}$$

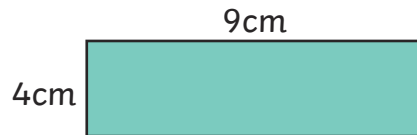
Section 5

Calculate, writing the answer as a decimal:

$$8 \overline{) 103.875} \\ \underline{8 31} \\ 203875$$

Section 6

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

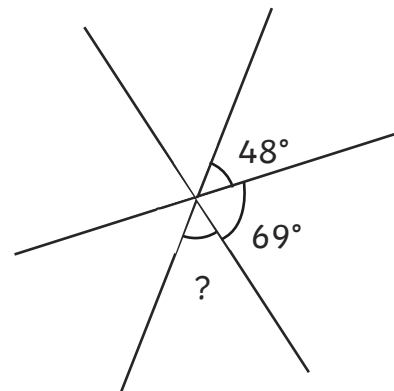


Various answer,s including:
 $6 \times 6\text{cm}$ $12 \times 3\text{cm}$, $18 \times 2\text{cm}$,
 $36 \times 1\text{cm}$

*not to scale

Section 7

Calculate the unknown angle.



63°

*not to scale

Section 8

Find two pairs of numbers that satisfy these equations:

$$3a + 2b = 15$$

$$3c - 2d = 10$$

$$a = 3, b = 3;$$

$$a = 5, b = 0.$$

$$c=6, d=4; c=10, d=10.$$