Year 6 Spring 1 Maths Activity Mat 3

Section 1

Round the following numbers to the nearest 10 million.

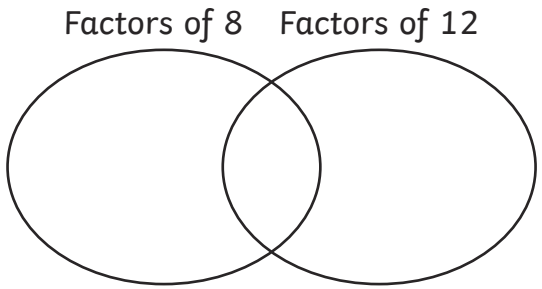
4 500 000 ☐

2478 375 ☐

7499 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?

☐

Section 4

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

☐ × ☐ = $\frac{1}{4}$

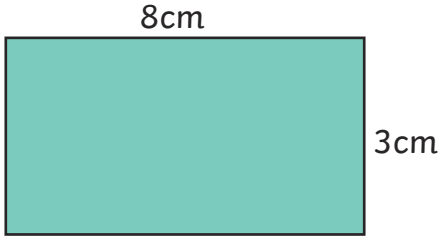
Section 5

Calculate, writing the answer as a decimal:

$4\overline{)146}$

Section 6

Calculate the area and perimeter of the following rectangle.



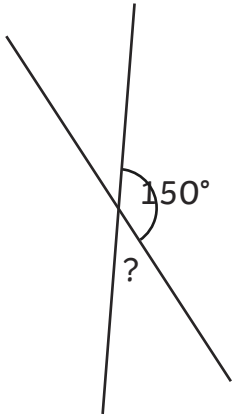
area = ☐

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

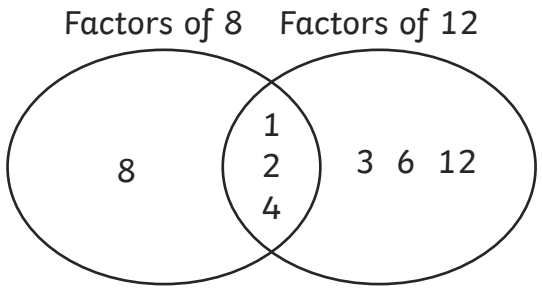
Section 1

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 $\frac{1}{4}$.

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

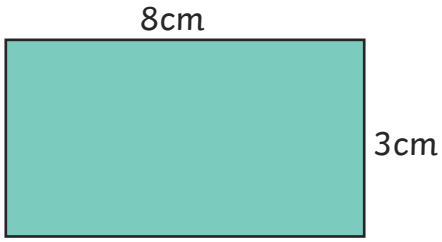
Section 5

Calculate, writing the answer as a decimal:

$$4\overline{)146} = 36.5$$

Section 6

Calculate the area and perimeter of the following rectangle.



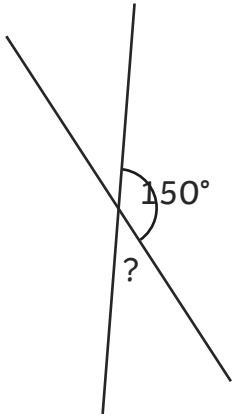
area = 24cm²

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 $\frac{1}{6}$.

☐ × ☐ = $\frac{1}{6}$

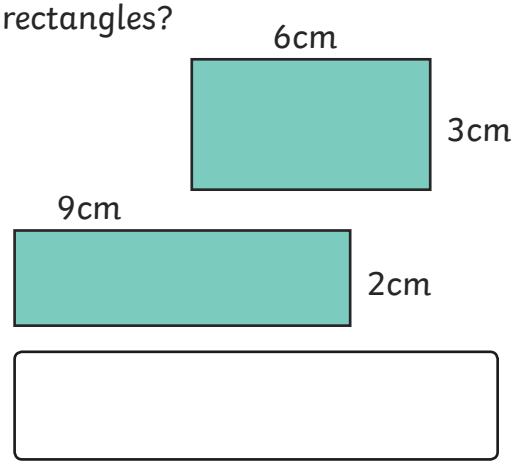
Section 5

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?

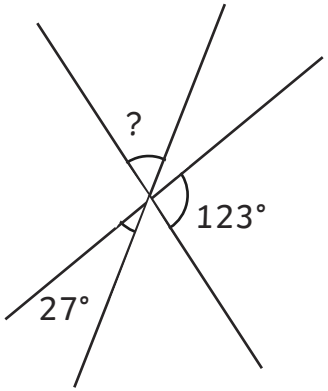


☐

*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

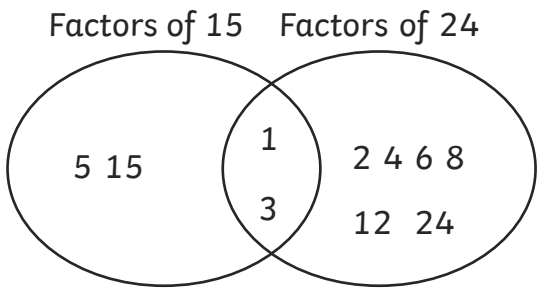
Section 1

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 $\frac{1}{6}$.

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

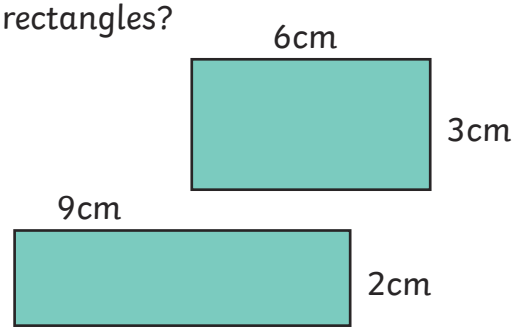
Section 5

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?

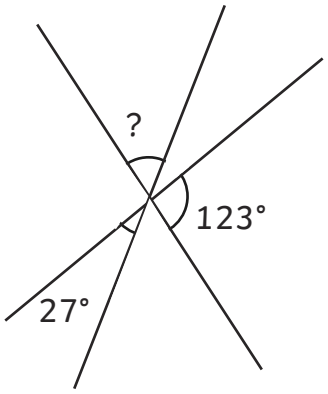


Same area $18cm^2$, different perimeter 22cm and 18cm

*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 $\frac{1}{30}$.

☐ × ☐ × ☐ = $\frac{1}{30}$

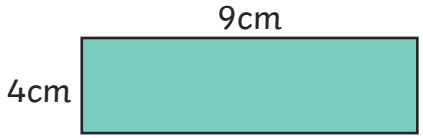
Section 5

Calculate, writing the answer as a decimal:

$8\overline{)831}$

Section 6

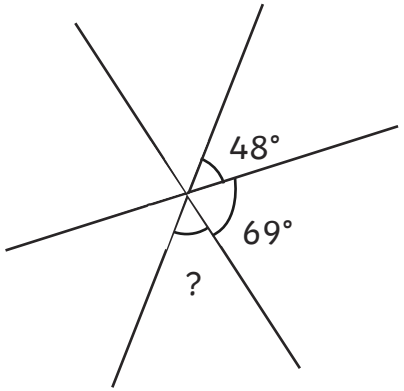
Draw (not to scale) a rectangle with the same area as this rectangle, but with a different perimeter. Label the sides.



*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

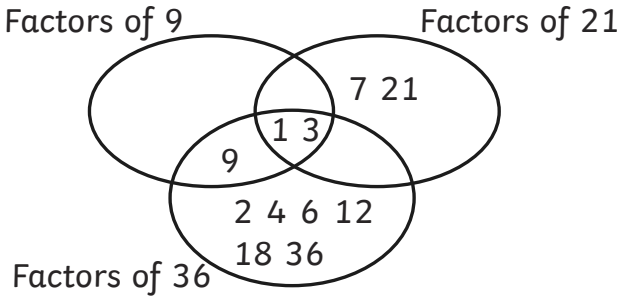
Section 1

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 $\frac{1}{30}$.

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

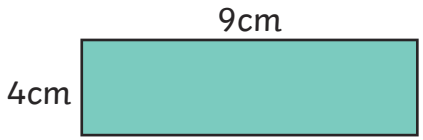
Section 5

Calculate, writing the answer as a decimal:

$$8\overline{)831} = 103.875$$

Section 6

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

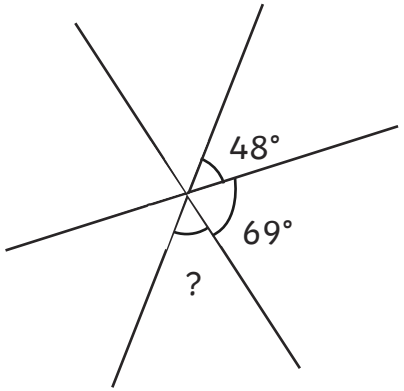


Various answer,s including:
6 × 6cm 12 × 3cm, 18 × 2cm, 36 × 1cm

*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.