Year 6 Summer 2 Maths Activity Mat 1

Section 1

Order the following numbers from smallest to largest:

414 144, 414 414, 411 141, 411 114

smallest largest

Section 2

Calculate:

0.6 x 10 = ☐

0.7 x 100 = ☐

0.3 x 100 = ☐

Section 3

Write a description of a square prism.

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.....

.....

Section 4

Here are some estimated answers to some calculations. Tick the reasonable estimates.

452 × 14 ≈ 5000

74 298 + 14 823 ≈ 90 000

623 ÷ 7 ≈ 90

Explain why any estimates are unreasonable.

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Section 5

Simplify the following fractions

$\frac{3}{12}$ = ☐

$\frac{15}{25}$ = ☐

Section 6

Convert the following:

0.7 kg = ☐ g

☐ kg = 3600g

Section 7

A grocer sells potatoes in bags of 750g. How many bags can be filled from 6.75kg of potatoes?

☐

Section 8

Some children research their classmates' favourite colour. They show the results in a pie chart.

40 children were asked about their favourite colour. How many children chose each colour?

red = ☐ green = ☐ blue = ☐

Year 6 Maths Homework Week 2 Due in Monday 15th June

Year 6 Summer 2 Maths Activity Mat 2

Section 1

What is the value of the digit in the hundred thousands place in the number 5 702 655?

Section 2

A theatre sells 1758 tickets. There are adult and child tickets. 592 more child tickets than adult tickets are sold. How many child tickets are sold?

Section 3

Calculate:

1 6 | 4 3 3 6

Section 4

Use <, =, or > to compare these fractions:

$\frac{9}{4}$		$\frac{5}{2}$
$\frac{21}{6}$		$\frac{10}{3}$
$\frac{7}{2}$		$\frac{21}{6}$

Section 5

Calculate

0.04 x 7 =

5 x 0.4 =

0.006 x 3 =

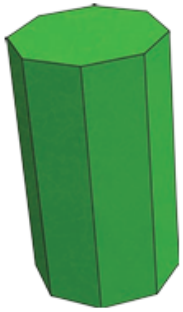
Section 6

There are 5 miles is 8 km.

How many kilometres are in 225 miles?

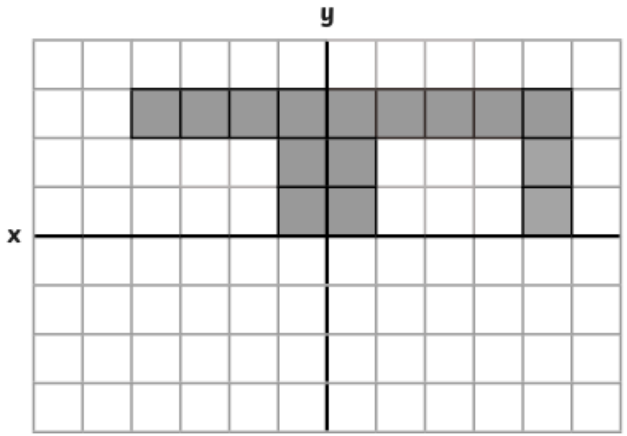
Section 7

Name this shape:



Section 8

Reflect this shape about the x-axis.



Year 6 Maths Homework Week 3 Due in Monday 22nd June

Year 6 Summer 2 Maths Activity Mat 3

Section 1

Round the following numbers to the nearest one million:

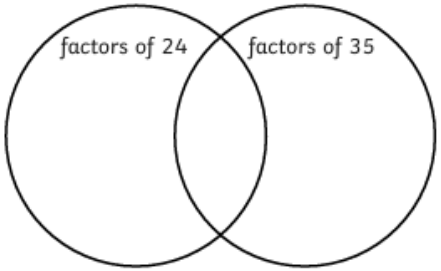
5 782 000 → ☐

3 500 000 → ☐

9 499 000 → ☐

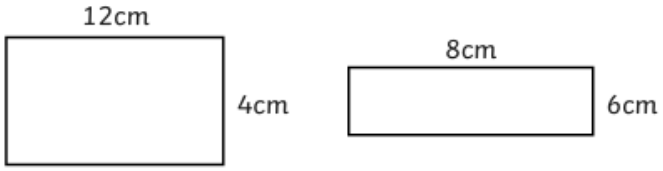
Section 2

Complete the Venn diagram to show the common factors of 24 and 35.



Section 6

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



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Section 3

What number, when halved, is one third of 39?

☐

Section 4

Calculate:

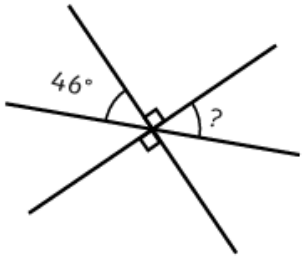
$\frac{1}{6} \times \frac{1}{4} =$ ☐

$\frac{2}{3} \times \frac{1}{3} =$ ☐

$\frac{1}{2} \times \frac{3}{8} =$ ☐

Section 7

Calculate the unknown angle.



☐

Section 8

Find 3 pairs of numbers that satisfy these equations:

a - 2b = 8 ☐

c + 2d = 8 ☐

Section 5

Calculate and write the answer as a decimal:

5 ⟌ 6 2 4

Year 6 Summer 2 Maths Activity Mat 4

Section 1

At 5:00 p.m., the temperature is 11°C. By 5:00 a.m. the following day, the temperature falls by 16°C. In the following 8 hours, the temperature rises by 9°C. What is the temperature at 1:00 p.m.?

Section 2

Use mental strategies to solve the following calculations:

654 + 260 =

158 + 543 =

478 - 203 =

703 - 245 =

Section 3

Calculate:

15 × (18 - 12) =

6 + 3 × 12 =

(45 + 27) ÷ 3 =

Section 4

Circle any fraction and decimal equivalent to $\frac{9}{10}$.

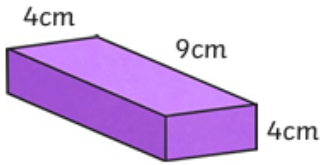
0.19 $\frac{1}{9}$ $\frac{36}{40}$ 0.9 $\frac{19}{20}$ $\frac{90}{100}$

Section 5

Angela has £6.79 in her purse and £15.90 in her bank account. She takes £5 out of her bank account and £2.80 out of her purse and buys a new t-shirt. How much money does she have left altogether, rounded to the nearest 10 pence?

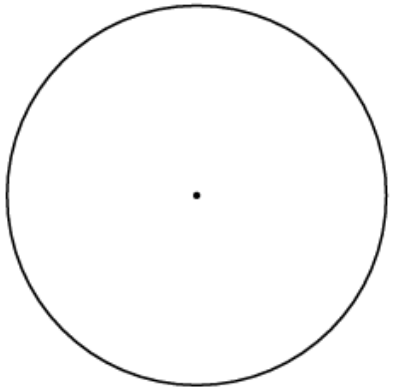
Section 6

Calculate the volume of this cuboid.



Section 7

Draw and label the radius and the diameter of this circle.



Section 8

Find the mean of these numbers:

11 15 27 4 18

Year 6 Summer 2 Maths Activity Mat 5

Section 1

Use these clues to find the number:

- The number has 6 digits.
- The number will round to 1 000 000 when rounded to the nearest million.
- 10 is a factor of the number.
- Three of the digits have no value.
- The tens digit is odd.
- No two adjacent digits are the same.
- The sum of the digits is 14.
- There are seven thousands.

Section 2

A supermarket has 3014 tins of tomatoes. 647 tins are on the shelves and 1273 are unboxed ready to put on the shelves. 54 tins are found to be damaged. The rest are still in boxes. How many tins are in boxes?

Section 3

Calculate:

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

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

Section 4

20% of a class catch a bus to school. What fraction of the class catch a bus to school?

Section 5

Calculate:

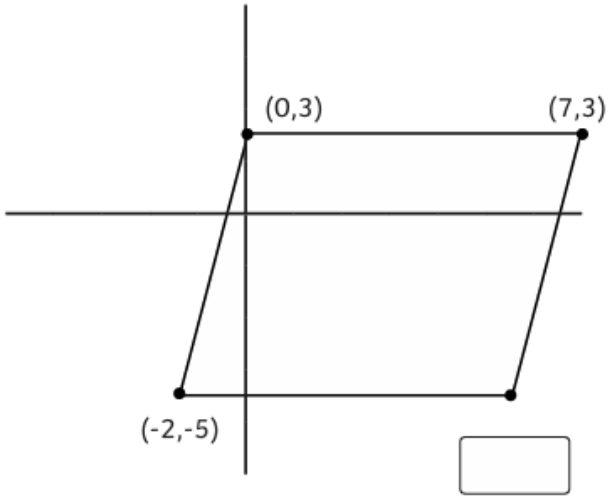
$$\begin{array}{r} 716 \\ \times \quad 43 \\ \hline \\ \hline \end{array}$$

Section 6

A length of rope is 4200mm long. It is divided into 14 equal pieces. How long is each piece in metres?

Section 7

Write the missing coordinates for this parallelogram.



Section 8

a and b are whole numbers between 7 and 17. Write all of the possible values of a and b where:

$2a - b = 20$

Year 6 Summer 2 Maths Activity Mat 6

Section 1

A bag of marbles has 3 red, 2 green and 5 blue marbles. A school needs 15 blue marbles. How many red and green marbles will they get?

Section 2

$y = 2x - 3$

If $x = 6$, what is y?

If $y = 5$, what is x?

Section 3

Calculate:

15% of £60 =

60% of £84 =

Section 4

Calculate:

$\frac{1}{3} + \frac{1}{12} =$

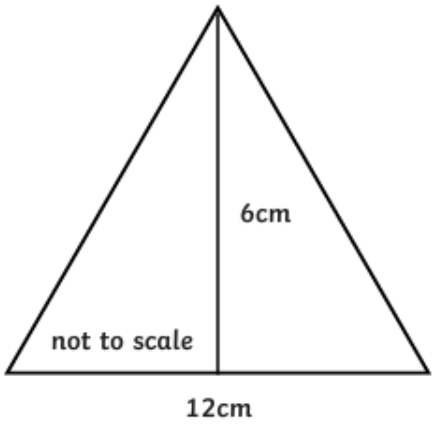
$\frac{3}{8} - \frac{1}{12} =$

Section 5

At a theatre, adult tickets cost £12 and child tickets cost £4.50. There are 14 adults and 20 children. How much money would the theatre have made in ticket sales?

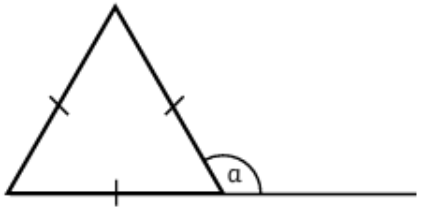
Section 6

Calculate the area of this triangle.



Section 7

Calculate angle a.



Section 8

Ahmed has 12 marbles. The number of blue marbles is b and the rest are red, r. How many marbles are red?

Complete the formula below to show how the answer could be calculated:

r =