

Year 6- Oasis Academy fir Vale

Maths Activity- Mat 1

Section 1

Order the following numbers from smallest to largest:

37 377, 33 773, 33 373, 37 737

smallest			largest

Section 2

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

$214 \times 6 = 1200$

$4535 + 3892 = 7000$

$448 \div 5 = 90$

Section 4

Simplify the following fractions:

$\frac{2}{8} = \square$

$\frac{3}{6} = \square$

Section 5

Calculate:

$0.2 \times 10 = \square$

$0.9 \times 10 = \square$

$0.4 \times 10 = \square$

Section 6

Convert the following:

1kg = g

kg = 2000g

Section 7

Write a description of a cube.

.....

.....

.....

Section 3

A baker makes 25 cakes. He sells them in boxes of 4 cakes. How many boxes can he fill from the 25 cakes?

Section 8

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



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

red =

green =

blue =

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Maths Activity- Mat 2

Section 1

What is the value of the digit in the hundred thousands place in 3 409 125?

Section 2

A cinema sells 1967 tickets. There are adult and child tickets. 785 more adult tickets than child tickets are sold. How many adult tickets are sold?

Section 3

Calculate:

$$14 \overline{) 8736}$$

Section 4

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

$\frac{1}{2}$		$\frac{1}{3}$
$\frac{10}{100}$		$\frac{1}{2}$
$\frac{1}{3}$		$\frac{11}{100}$

Section 5

Calculate

$0.04 \times 7 =$

$0.05 \times 4 =$

$0.06 \times 8 =$

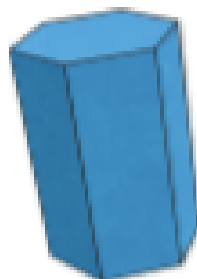
Section 6

5 miles is 8 km

How many kilometres in 125 miles?

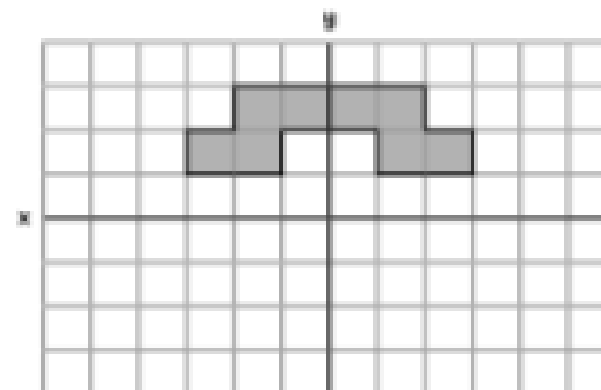
Section 7

Name this shape:



Section 8

Reflect this shape about the x axis.



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Maths Activity- Mat 3

Section 1

Round the following numbers to the nearest 1 million:

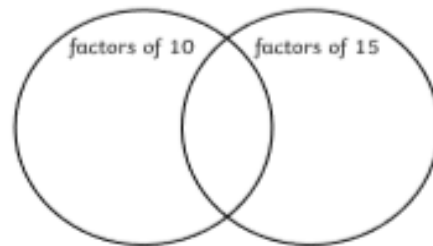
4 561 234 →

1 500 000 →

4 499 000 →

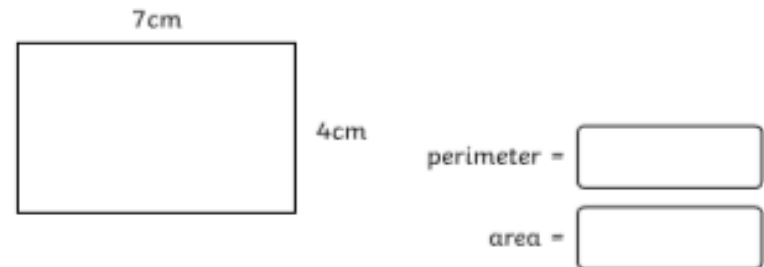
Section 2

Use this Venn diagram to write the common factors of 10 and 15.



Section 6

Calculate the area and perimeter of the following rectangle.



Section 3

Half of a number is 28. What is the number?

Section 4

Calculate:

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

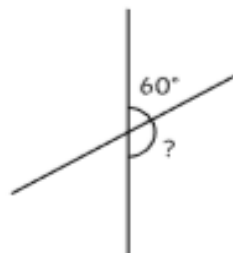
$$\frac{1}{2} \times \frac{1}{3} = \text{ }$$

$$\frac{1}{4} \times \frac{1}{3} = \text{ }$$

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

Section 7

Calculate the unknown angle.



Section 8

Find 3 pairs of numbers that satisfy these equations:

$$a - b = 3$$

$$c + d = 8$$

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Maths Activity- Mat 4

Section 1

At 8pm, the temperature is 6°C . By 6am the following morning, the temperature is 10°C colder. What is the temperature at 6am?

Section 2

Calculate in your head:

$23 + 56 =$

$46 + 28 =$

$73 - 32 =$

$81 - 17 =$

Section 3

Calculate:

$2 \times (4 + 5) =$

$6 + 5 \times 2 =$

$(5 + 11) \div 2 =$

Section 4

Circle any fraction and decimal equivalent to $\frac{1}{2}$.

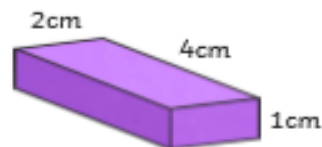
- 0.2 $\frac{4}{8}$
- 0.5 $\frac{2}{10}$
- $\frac{3}{6}$ $\frac{12}{20}$

Section 5

James has \$3.65 in his money jar and 90c in his pocket. How much money has he altogether rounded to the nearest dollar?

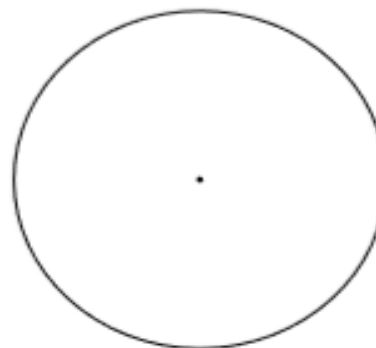
Section 6

Calculate the volume of this cuboid:



Section 7

Draw the radius of this circle:



Section 8

Find the mean of these numbers:

- 6
- 5
- 4 9

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Maths Activity- Mat 5

Section 1

Use these clues to find the number:

- It is less than 1 000.
- It is a multiple of 5.
- All of the digits are odd.
- The first and last digits add up to 12.
- The tens digit is the largest digit.

Section 2

Calculate:

$$\begin{array}{r} 1042 \\ \times 13 \\ \hline \\ \hline \end{array}$$

Section 3

A school library has 2498 books. 329 books are on loan, and 1983 are in the library. The rest are missing. How many books are missing?

Section 4

Calculate:

$$\frac{1}{3} \div 2 = \boxed{}$$

$$\frac{1}{2} \div 3 = \boxed{}$$

Section 5

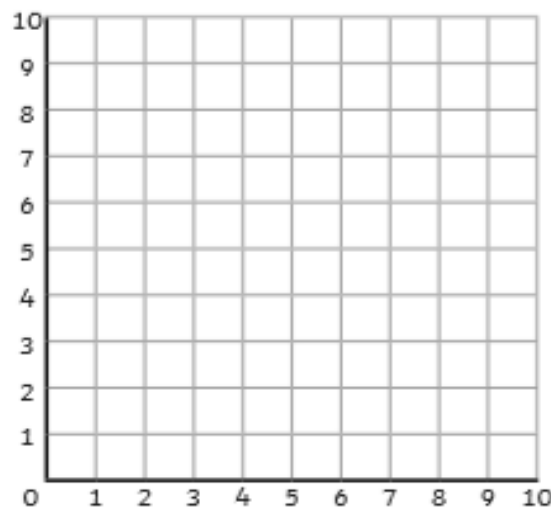
50% of a class are boys. What fraction of the class are boys?

Section 6

A piece of string 3m long is cut into 12 equal pieces. How long is each piece in metres?

Section 7

Draw a rectangle on this coordinates grid using the coordinates: (1,2) (9,2) (1,5) (9,5).



Section 8

a and **b** are whole numbers between 3 and 7. Write all the calculations showing the possible values of **a** and **b** where:

$$a + b = 10$$

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Maths Activity- Mat 6

Section 1

A bag of balls contains 3 red and 5 blue balls. A school buys some bags of balls. There are 9 red balls. How many blue balls are there?

Section 2

$$y = x + 2$$

If $x = 6$, what is y ?

If $y = 5$, what is x ?

Section 3

Calculate:

$$25\% \text{ of } \$24 =$$

$$10\% \text{ of } \$32 =$$

Section 4

Calculate:

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

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

Section 5

There are 20 people in a cinema. Adults pay \$10 and children \$6. The takings are \$164. How many children are in the cinema?

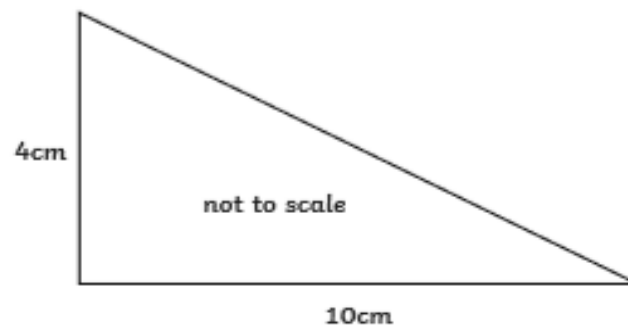
Section 7

Calculate the angles in this square:



Section 6

Calculate the area of this right angled triangle:



Section 8

Express the answer to this word problem algebraically, using t to represent the number of t-shirts being washed:

Alison has 12 t-shirts. 7 are in her drawer. The rest are being washed. How many t-shirts are being washed?