1

Order the following numbers from smallest to largest, writing the answers in numerals:

Seven hundred and sixty-six thousand, seven hundred and sixty-six; seven hundred and sixty-seven thousand, seven hundred and seventy-seven; seven hundred and sixty-seven thousand, six hundred and seventy-six; seven hundred and sixty-six thousand, six hundred and seventy-seven.

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

508 × 12 ≈ 6000

	9	231	409	_	5	791	231	~	3	500	000
--	---	-----	-----	---	---	-----	-----	---	---	-----	-----

76 012 ÷ 17 ≈ 3000

Explain your answers.

A school has 21 classes of 28
children. The children are arranged
into groups of eight. How many groups of
eight children will there be?

Simplify the following fractions.

15 27

5 Calculate: $0.7 \times 110 =$ $0.4 \times 1001 =$

45

 $0.9 \times 1010 =$

Convert the following:	6
8ml =	l
	cl = 0.0931

4

7 I have eight faces that are all triangles. What am I? Draw me. 8 Some children research children's favourite sports. They show the results in a pie chart. football swimming cricket ___ golf 40 children chose cricket. Estimate how many children chose each of the other sports? Football _____ Golf _____ Swimming _____





1 4 Write a number that is more Use <, =, or > to compare these than one million, where the sum fractions. of the digits is 36, all the digits are **7** 5 3 2 multiples of three but not 0, and no consecutive digits are equal. 11 8/3 17 2 8 2 Three farms cover an area of 235 892 acres. One farm covers an area of 65 341 acres, another Calculate: twice the area of the first. How many $0.8 \times 0.5 =$ acres is the last farm? $0.9 \times 0.06 =$ $0.07 \times 0.04 =$ 3 6 1 mile ≈ 1600m Calculate: _84 A marathon is about 26 miles. How many kilometres is a marathon 998 2 to the nearest 100m?



5











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2

3

The temperature in a freezer should be at 0°F. To convert F to C, use the following formula: C =(F-32) ×5/9 What should be the temperature in C in a freezer to the nearest tenth of a degree?

Calculate in your head:

112 + 134 + 109 =

288 + 112 + 698 =

384 - 134 =

425 - (150 + 50) =

Calculate:

 $(2 + 9) \times (7 - 2) =$

12 - 4 × 5 + 8 =

 $(34 - 6) \div (9 - 2) =$

Write an odd one out question with four fractions and a decimal where they are all equal except one number.

The population of the United Kingdom has risen from 64.1 million in 2013 to 65.3 million in 2016. Estimate the annual increase in the population of the UK to the nearest hundred thousand.

Write the dimensions of three cuboids with a volume of 42 cm³, where the edges are all whole centimetres.



Draw two concentric circles where the radius of one circle is twice that of the other. (Concentric means same centre.)

The average of five whole numbers is 35.4. If the smallest number is 15, what is the largest number possible?





8

2

Use these clues to find the number:

- This is a seven-digit number.
- The digits all add up to 37.
- There are only two different digits and no consecutive digits are the same.
- There are odd and even digits.

Find the missing numbers in this calculation.



Write 3.875 as an improper fraction? 3

5

10

A shop sells four sizes of Easter eggs. Altogether it sells 10 351 eggs. 2617 small eggs are sold. Twice as many medium eggs as small eggs are sold. Of the remaining eggs, 75% are large and the rest are extra large. How many medium, large and extra large eggs are sold?

Complete:

$$3 \div 7 = 3 - \div /_1 = 1$$

if the drink was shared equally?

Alex makes a drink for a party of 24 children. He uses three types of juice in the ratio 2:3:1. He uses 1.75l of the juice of which he uses the least. How much drink would each child have



a and b are whole numbers between 4 and 10. Write all the combinations showing the possible values of a and b where:

3a - b = 9





8

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Anita buys some packs of chocolate eggs. She has 32 plain chocolate eggs, 20 milk chocolate eggs and 12 milk chocolate eggs. There are 16 eggs in a pack. How many of each egg are in a pack?

2y = 5x + 9	2
If x = 3, what is y?	
If y = 7, what is x?	
Calculate	3
13% of £72 =	
37 5% of £186 =	

Calculate:

7

$$\frac{7}{20} + \frac{2}{5} + \frac{1}{10} =$$

5 For Comic Relief, a school has three activities. The children pay £1.50 to wear red, there is a bake sale. and the children can pay £2 to throw a wet sponge at a teacher. Altogether, the children raised £528.50. 167 children wore red, and 97 children paid to throw a wet sponge at a teacher. How much did the bake sale make?

4

 $-\frac{3}{16}=$

6 The area of this triangle is 36cm². The height is half the length of the base of the triangle. What are the dimensions of the triangle?

36cm²



Express the answer to this word problem algebraically, using h to represent the number hours Toby is awake in a day, when he wakes up at 7am and goes to sleep at 8pm.





Order the following numbers from smallest to largest, writing the answers in numerals: Seven hundred and sixty-six thousand, seven hundred and sixty-six; seven

hundred and sixty-seven thousand, seven hundred and seventy-seven; seven hundred and sixty-seven thousand, six hundred and seventy-six; seven hundred and sixty-six

thousand, six hundred and seventy-seven.

766 677 766 766 767 676 767 777

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

```
✓ 508 × 12 ≈ 6000
```

5 × 12 = 60, 500 × 12 = 6000

```
9 231 409 - 5 791 231 ≈ 3 500 000
```

9.2 - 5.7 = 3.5, so 9 200 000 - 5 700 000 = 3 500 000

176 012 ÷ 17 ≈ 3000

17 × 4 = 68, so 68 ÷ 17 = 4, so 76 ÷ 17 ≈ 4.5, so 76 000 ÷ 17 ≈ 4 500



















(3

2

3

The temperature in a freezer should be at 0°F. To convert F to C, use the following formula: C =(F-32) \times 5/9 What should be the temperature in C in a freezer to the nearest tenth of a degree?

-17.8°C

Calculate in your head: 112 + 134 + 109 = 355 288 + 112 + 598 = 998 384 - 134 = 250 425 - (150 + 50) = 225Calculate: $(2 + 9) \times (7 - 2) = 55$ $12 - 4 \times 5 + 8 = 0$

```
(34 - 6) ÷ (9 - 2) = 4
```

Write an odd one out question with four fractions and a decimal where they are all equal except one number.

various answers

The population of the United Kingdom has risen from 64.1 million in 2013 to 65.3 million in 2016. Estimate the annual increase in the population of the UK to the nearest hundred thousand.

400 000

Write the dimensions of three cuboids with a volume of 42 cm³, where the edges are all whole centimetres.

Various answers including: $42 \times 1 \times 1$, $21 \times 2 \times 1$, $7 \times 3 \times 2$, $7 \times 6 \times 1$. Draw two concentric circles where the radius of one circle is twice that of the other. (Concentric means same centre.)



The average of five whole numbers is 35.4. If the smallest number is 15, what is the largest number possible?

117 (when all the other 4 numbers are 15)





8

2

Use these clues to find the number:

- This is a seven-digit number.
- The digits all add up to 37.
- There are only two different digits . and no consecutive digits are the same.
- There are odd and even digits.

4 747 474

Find the missing numbers in this calculation. 1 1 4

9216

5 7 6 4 5 1 2

4 6 0 8 0 0

5 2 5 3 1 2

1

4 A shop sells four sizes of Easter eggs. Altogether it sells 10 351 eggs. 2617 small eggs are sold. Twice as many medium eggs as small eggs are sold. Of the remaining eggs, 75% are large and the rest are extra large. How many medium, large and extra large eggs are sold? 5234 medium, 1875 large, 625 extra large 5 Complete: $\frac{3}{2} \div 2 = \frac{3}{8}$ $\frac{2}{5} \div 4 = \frac{1}{10}$ 6 Alex makes a drink for a party of 24 children. He uses three types of juice in the ratio 2:3:1. He uses 1.75l of the juice of which he uses the least. How much drink would each child have if the drink was shared equally?

8

Write 3.875 as an improper

fraction?

3

437.5ml or 0.4375l







2

3

Anita buys some packs of chocolate eggs. She has 32 plain chocolate eggs, 20 milk chocolate eggs and 12 milk chocolate eggs. There are 16 eggs in a pack. How many of each egg are in a pack?

8 plain, 5 milk, 3 white chocolate eggs

2y = 5x + 9 If x = 3, what is y? **12** If y = 7, what is x? **1**

Calculate:

13% of £72 = **£9.36**

37.5% of £186 = **£69.75**

Calculate: $+\frac{2}{5}+\frac{1}{10}=\frac{1}{5}$ $\frac{1}{4} - \frac{3}{16} = \frac{1}{16}$ 5 For Comic Relief, a school has three activities. The children pay £1.50 to wear red, there is a bake sale. and the children can pay £2 to throw a wet sponge at a teacher. Altogether, the children raised £528.50. 167 children wore red, and 97 children paid to throw a wet sponge at a teacher. How much did the bake sale make? £84 6 The area of this triangle is 36 cm^2 . The height is half the length of the base of the triangle. What are the dimensions of the triangle? base 12cm height 6cm 36cm²

Calculate the angles in this regular dodecagon: 150° 8 Express the answer to this word problem algebraically, using h to represent the number hours Toby is awake in a day, when he wakes up at 7am and goes to sleep at 8pm. h = 24 - 11h = 24 - (7 + 4)



