**MONDAY** | **TUESDAY** | **WEDNESDAY** | **THURSDAY** | **FRIDAY** | **SATURDAY** | **SUNDAY**
---|---|---|---|---|---|---

**1st** | **2nd** | **3rd** | **4th** | **5th**

**Billy has x marbles in a bag. Write an expression for the number of marbles the following people have...**
- **(a)** Charlie has 5 more than Billy
- **(b)** Danny has 8 fewer than Billy
- **(c)** Eric has twice as many as Charlie.

**CALCULATOR, work out the answer to the following...**
- **(a)** Find the length of your working.
- **(b)** Write down the number 40308 in words.
- **(c)** Write down the value of the 7 in the number 17103.
- **(d)** The weight of a dog is 9kg. How much does it weigh? Use the information that 1kg = 1000grams.

**Make m the subject of the formula**

\[ f = 5m - n \]

**WITHOUT USING A CALCULATOR, work out the answer to the following...**
- **(a)** \( 4^2 - 2 \div 3 \)
- **(b)** \( \frac{2}{3} \times \frac{1}{5} \)

**Martin writes down 4 numbers. Their mean is 8. The range is 6. The largest value is 11. There is no mode. Write down the four numbers.**

**The scale on a map is 1 : 25 000. On a map, a distance measures 5cm. What is this in real life? Give your answer in kilometres.**

**There were 37 people on a bus at the start of its journey. At the first stop 14 got off and 8 got on. At the second stop, 20 got off and 22 got on. How many people were on the bus after the 2nd stop?**

**WITHOUT USING A CALCULATOR and showing all your working, find the answer to 96 x 38.**

**Use the information that 37 x 9.4 = 347.8 to write down the answer to...**
- **(a)** 370 x 94
- **(b)** 0.37 x 94
- **(c)** 3478 + 0.094

**In each case show how you have used the given calculation.**

**Write 240 as a product of prime factors.**

**WITHOUT USING A CALCULATOR and showing how you came by your answer, find 11% of £672.**

**Draw the graph of**

\[ y = 5 - 2x \]

**Between x = -2 and x = 4.**

**Write down the most appropriate metric unit to use the measure...**
- **(a)** the length of a reading book
- **(b)** the amount of water on a teaspoon
- **(c)** the distance from Sheffield to London
- **(d)** the weight of a dog

**Andy, Brenda and Charlotte share the monthly rent on their house in the ratio 5 : 3 : 7. The total rent is £40. How much does each pay?**

**Solve the equations...**
- **(a)** 8x = 72
- **(b)** 5x + 2 = 17
- **(c)** 4(3x - 1) = 9

**A circle has a circumference of 400cm.**
- **(a)** What is its radius?
- **(b)** What is its area?

**Frank says that “For any whole number n, the value of \( 6n - 1 \) is always prime”. Is Frank correct? Justify your answer.**

**Make an estimate of the following...**
- **(i)** 7.41 x 10^3
- **(ii)** 1.045 x 10^{-3}

**Write the following as standard form numbers...**
- **(i)** 0.00007001
- **(ii)** 9014000

**Between 1.045 x 10^{-3} and 1.21 x 10^{-1}...**
- **(a)** What is its radius?
- **(b)** What is its area?

**You have a long break between now and returning full time to school. If you need help there are some fantastic videos at www.corbettmaths.com.**

Enjoy the summer and keep doing some mathematics!
### MONDAY

**31st**

(a) Write 16% as a decimal
(b) Write 0.025 as a percentage
(c) Write 0.6 as a fraction in its simplest form.

A town has 15,400 inhabitants, 7,350 are male.
(a) What percentage of the inhabitants are females?
(b) How many inhabitants are between 18 and 65 years old?
(c) A school buys 27 calculators for a total cost of £142.29. How much will 55 of these calculators cost?

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### TUESDAY

**7th**

A school buys 27 calculators for a total cost of £142.29. How much will 55 of these calculators cost?

### WEDNESDAY

**10th**

A town has 15,400 inhabitants, 7,350 are male.
(a) What percentage of the inhabitants are females?
(b) How many inhabitants are between 18 and 65 years old?
(c) A school buys 27 calculators for a total cost of £142.29. How much will 55 of these calculators cost?

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### THURSDAY

**13th**

A town has 15,400 inhabitants, 7,350 are male.
(a) What percentage of the inhabitants are females?
(b) How many inhabitants are between 18 and 65 years old?
(c) A school buys 27 calculators for a total cost of £142.29. How much will 55 of these calculators cost?

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### FRIDAY

**20th**

A school buys 27 calculators for a total cost of £142.29. How much will 55 of these calculators cost?

### SATURDAY

**29th**

A school buys 27 calculators for a total cost of £142.29. How much will 55 of these calculators cost?

### SUNDAY

**30th**

A school buys 27 calculators for a total cost of £142.29. How much will 55 of these calculators cost?

### AUGUST

<table>
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<th>Day</th>
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<td>MONDAY</td>
<td>A BIT OF MATHS EACH DAY – SUMMER BOOST 2020 – FOUNDATION TIER</td>
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<td>TUESDAY</td>
<td>CALCULATOR and showing all answers clearly how you did it.</td>
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<td>WEDNESDAY</td>
<td>A school buys 27 calculators for a total cost of £142.29. How much will 55 of these calculators cost?</td>
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<td>THURSDAY</td>
<td>Put the numbers in order of size, from smallest to largest, showing clearly how you did this...</td>
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<tr>
<td>FRIDAY</td>
<td>Another number 15 leaves the bus station every 12 minutes.</td>
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<td>SATURDAY</td>
<td>There are 1200 students in a school. 631 students are female.</td>
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Enjoy the summer and keep doing some mathematics!