

Suggest a simple method to add 99 and 38.

$$100 + 38 = 138$$

$$138 - 1 = 137$$

Work out $8 + 2 \times 5$.

You should multiply first (unless brackets tell you otherwise):

$$\begin{aligned} 8 + 2 \times 5 \\ = 8 + 10 \\ = 18 \end{aligned}$$

Work out $3(8 + 2)$.

Do the brackets first:

$$\begin{aligned} 3(8 + 2) \\ = 3 \times 10 \\ = 30 \end{aligned}$$

What is half of a half?

A quarter

What do you get if you add one half to one quarter?

Three quarters

What is $\frac{4}{8}$ written in its simplest form?

$$\frac{1}{2}$$

Work out $1\frac{1}{4} + 1\frac{1}{2}$.

$$2\frac{3}{4}$$

How many decimal places does 3.4652 have? Round it to 2 decimal places.

3.4652 has four decimal places

To 2 decimal places, it is 3.47

<p>What is the smallest whole number which will round up to 40?</p>	<p>What is 729 to the nearest hundred?</p>
<p>35</p>	<p>700</p>
<p>What percentage is the same as one half?</p>	<p>a. What is 3% of £1? b. What is 3% of £6?</p>
<p>50%</p>	<p>a. 3p b. 18p</p>
<p>The temperature is 3°C. It drops by 8°C. What is the temperature now?</p>	<p>Work out: a. $5 - 9$ b. $6 + (-11)$ c. 3×-5</p>
<p>$3 - 8 = -5^{\circ}\text{C}$</p>	<p>a. -4 b. -5 c. -15</p>
<p>List all the factors of 12.</p>	<p>What are all the common factors of 15 and 45?</p>
<p>It is useful to find them in pairs: 1 and 12 2 and 6 3 and 4</p>	<p>Find all the factors of 15, and give ones which are also a factor of 45: 1, 3, 5 and 15</p>

<p>What is the highest common factor of 12 and 15?</p>	<p>What is the lowest common multiple of 30 and 40?</p>
<p>3</p>	<p>120</p>
<p>If I buy 5 pencils for 35 pence, how much should I pay for 3 pencils?</p>	<p>A dress is in a sale, with $\frac{1}{3}$ off. The dress originally cost £36. How much does it cost now?</p>
<p>1 pencil: $35 \div 5 = 7p$ 3 pencils: $3 \times 7 = 21p$</p>	<p>$\frac{1}{3} \times 36 = £12$ $36 - 12 = £24$</p>
<p>Arrange these numbers from smallest to largest: 0.3 $\frac{2}{3}$ 50% $\frac{1}{10}$ 0.7</p>	<p>Without a calculator, work out 341×92.</p>
<p>$\frac{1}{10}$ 0.3 50% $\frac{2}{3}$ 0.7</p> <p>Convert them all into decimals to work it out, but remember to give your answer using the original numbers!</p>	<p>31372</p>
<p>Burt is 5 times older than Luke. Burt is 65. How old is Luke?</p>	<p>A necklace has 30 beads: 5 are red, 10 are blue and the rest are black. What is the ratio of red, blue and black beads?</p>
<p>13</p>	<p>5 red : 10 blue : 15 black 1 : 2 : 3</p>

<p>'All multiples of 5 end in 5.' True or false? Explain your answer.</p>	<p>What do we mean when we say 'a multiple of 6'?</p>
<p>False – they could end in 5 or 0</p>	<p>A number which can be exactly divided by 6. Or you could say 'A number which is in the six-times table'. 6, 12, 18, 24, 30 ...</p>
<p>Give the next two numbers in these sequences: a. 2, 6, 10, 14 ... b. 1, 4, 9, 16 ...</p>	<p>a. State an odd square number. b. State an even cube number.</p>
<p>a. 18, 22 (add four each time) b. 25, 36 (square numbers)</p>	<p>$1 \times 1 = 1$ $2 \times 2 \times 2 = 8$ a. $3 \times 3 = 9$ b. $4 \times 4 \times 4 = 64$ $5 \times 5 = 25$ $6 \times 6 \times 6 = 216$ etc</p>
<p>How do we write 'two cubed', and how do is it calculated?</p>	<p>What is a prime number?</p>
<p>2^3 $2^3 = 2 \times 2 \times 2$ $= 8$</p>	<p>A number which can only be divided by one and itself. Or you could say: 'a prime number only has one pair of factors'.</p>
<p>What is the largest prime number less than 10?</p>	<p>What is the smallest prime number greater than 10?</p>
<p>7</p>	<p>11</p>

<p>What is the cost of 5 pencils at m pence each?</p>	<p>How do we write $s \times s \times s$?</p>
<p>$5m$</p>	<p>s^3</p>
<p>Simplify:</p> <p>$4x + 2y + 6x - y$</p>	<p>Double $3x + 2$.</p>
<p>$10x + y$</p>	<p>$6x + 4$</p>
<p>Expand $5(2y - 3)$.</p>	<p>Solve the equation:</p> <p>$3x + 6 = 15$</p>
<p>$10y - 15$</p>	<p>$3x + 6 = 15$ $3x = 9$ $x = 3$</p>
<p>If $x = 4$, what is the value of $3x - 2$?</p>	<p>A bus travels at 40 miles per hour. How far will it go in 3 hours?</p>
<p>$3x - 2$ $= 3 \times 4 - 2$ $= 10$</p>	<p>40 miles in one hour 120 miles in three hours</p>