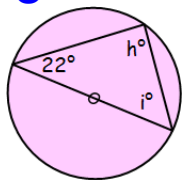

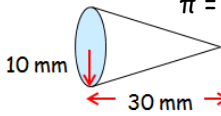
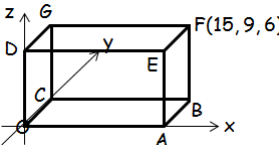

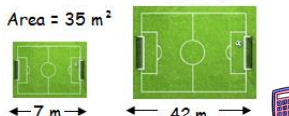

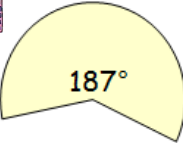


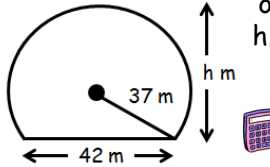
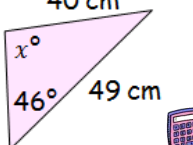

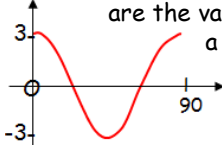




<p>1 Simplify...</p> $\sqrt{5} + \sqrt{500} - \sqrt{45}$	<p>2 Express these fractions in their simplest form...</p> $\frac{(x-6)(x+18)}{(x-6)^3}$	<p>3 Write the following in the form...</p> $y = (x+a)^2 + b.$ $y = x^2 + 6x + 2$	<p>4 Calculate...</p> $3\frac{1}{3} \div 1\frac{4}{5}$	<p>5 A function is defined as</p> $f(x) = x^2 - 3x$ <p>Find $f(-2)$.</p>	<p>6 Factorise...</p> $64x^2 - 81y^2$
<p>7 Change the subject of the formula to x...</p> $m = n + 4\sqrt{z}$	<p>8 What are the sizes of the missing angles?</p> 	<p>9 Solve</p> $x^2 + 7x + 3 = 0$ <p>giving your solutions to 1 decimal place...</p> 	<p>10 Express your answer with a positive power...</p> $x^3 \times (x^2)^{-4}$	<p>11 Calculate the volume of this cone. Use $\pi = 3.14$...</p> 	<p>12 Subtract the following fractions...</p> $\frac{9}{(x+3)} - \frac{5}{(x-8)}$
<p>13 Write down the coords of point G...</p> 	<p>14 Dominic pays £79.20 for a Valentine's dinner. This includes a 10% service charge. How much did it cost for the meal?</p> 	<p>15 Find the equation of the line passing through</p> <p>(4, 3) and (6, -7).</p>	<p>16 The following pitches are mathematically similar. Calculate the missing area...</p> 	<p>17 Multiply out the following brackets and simplify...</p> $(x-6)(x^2 + 8x + 1)$	<p>18 Solve the following system of equations...</p> $3x + 2y = 16$ $2x - 5y = 55$
<p>19  The length of the arc is 75.03 m. Calculate the diameter...</p> 	<p>20 Calculate the standard deviation of the following data set...</p>  <p>151, 152, 155, 158</p>	<p>21 The temperature in a room was 23°C. The temperature drops by 7% every hour. What will the room temperature be after 3 hours?</p> 	<p>22 Solve the following equation...</p> $\frac{x+5}{4} + \frac{x-7}{2} = 3$	<p>23 Determine the nature of the roots...</p> $2x^2 - 6x + 5 = 0$	<p>24 Find the value of h...</p> 
<p>25 Calculate the size of the missing angle...</p>  	<p>26 Shown is the graph $y = a \cos bx^\circ$. What are the values of a and b?</p> 	<p>27 Find the coordinates of the turning point of the parabola with equation...</p> $y = x^2 - 12x$	<p>28 Solve the equation</p> $5 \cos x^\circ - 3 = 1$ <p>for $0 \leq x \leq 360$.</p>		