

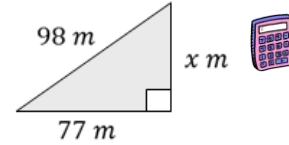
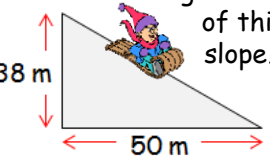



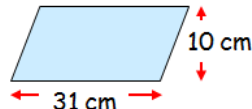


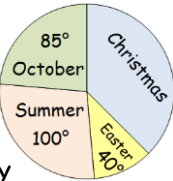

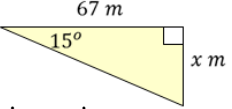


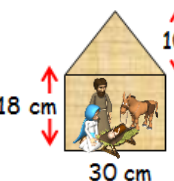




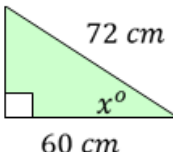

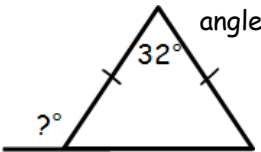


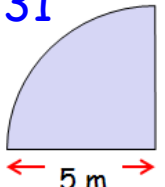




1 Nathan opens a window on his advent calendar at random. The calendar is numbered 1-24. What is the probability that he will have opened a window that is a multiple of 5?



<p>2 Write 0.8 as a fraction and a percentage.</p>	<p>3 Calculate <math>-8 + (-4)</math></p>	<p>4 Lucky Todd got 32 presents! <math>\frac{3}{8}</math>'s of them were toys.  How many of his presents were toys?</p>	<p>5 Calculate the median of the following data set... 8, -2, 6, -5, 0, -9</p>	<p>6 Calculate the length of the missing side... </p>	<p>7 Multiply out the following bracket and simplify... <math>10 - 4(x + 2)</math></p>												
<p>8 Calculate the gradient of this slope... </p>	<p>9 The weather forecast predicts a 6 in 40 chance of snow in December. It also predicts an 8 in 50 chance of snow in January. Is it more likely to snow in December or January? Give a reason your answer! </p>	<p>10 Santa flies 315 kilometres in 2 hrs 6 mins.  What is his average speed? </p>	<p>11 Calculate the area of this parallelogram... </p>	<p>12 Simplify the following expression... <math>5x - 3y + 2x + 9y</math></p>	<p>13 Grandpa Smith shared some pocket money between his three grandsons Max : Andrew : Freddie in the ratio 9 : 4 : 7. Andrew received £32. How much did Max and Freddie both receive? </p>												
<p>14 Solve the following equation... <math>9x + 5 = x - 11</math></p>	<p>15  600 children asked. How many preferred Christmas? </p>	<p>16 If <math>m = -1</math> and <math>c = 2</math> calculate :- <math>2m^2 - 3c</math></p>	<p>17 Factorise the following expression... <math>8x - 12</math></p>	<p>18 At a football game there were 40 000 supporters. 35 000 were supporting the home team. What percentage of the crowd were supporting the away team? </p>	<p>19  Calculate the length of the missing side... </p>												
<p>20 Change the subject of the formula to r... <math>M = 3r - y</math></p>	<p>21  Write a rule and complete the table... <table border="1" data-bbox="338 1099 627 1170"> <tr> <td>Trees (T)</td> <td>1</td> <td>2</td> <td>3</td> <td>17</td> <td>?</td> </tr> <tr> <td>Baubles (B)</td> <td>11</td> <td>19</td> <td>27</td> <td>?</td> <td>195</td> </tr> </table></p>	Trees (T)	1	2	3	17	?	Baubles (B)	11	19	27	?	195	<p>22 Calculate the area of this card-board crib... </p>	<p>23 Calculate the amount of paper used to wrap this present in <math>\text{cm}^2</math>. </p>	<p>24 Santa was left 350 millilitres of milk.  How many litres is this?</p>	<p>25 This formula is for cooking a turkey: Cooking time in mins = weight in kg <math>\times</math> 45 + 20 Calculate the cooking time, in hrs and mins, for a 3 kg turkey. </p>
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<p>26 This £80 pair of trainers have 15% off in the Boxing Day sale. How much do they now cost? </p>	<p>27 Calculate the size of the missing angle... </p>	<p>28 Cameron got £60 in Christmas money. He spent £29.98 on a computer game and £12.70 on a new control pad. How much money does he have left over? </p>	<p>29 Calculate the missing angle... </p>	<p>30 The official currency of  Lapland is euros. Santa exchanged £300 and received €342. What is the current exchange rate? </p>	<p>31 Calculate the perimeter of this shape... </p>												