









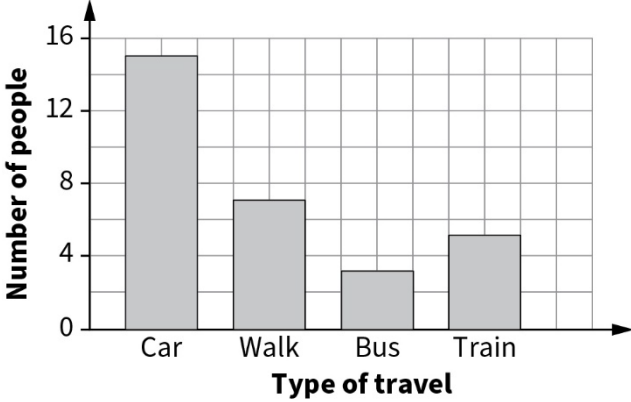
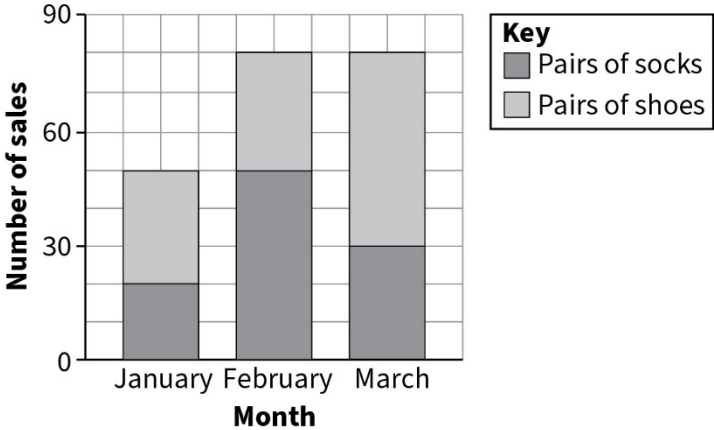
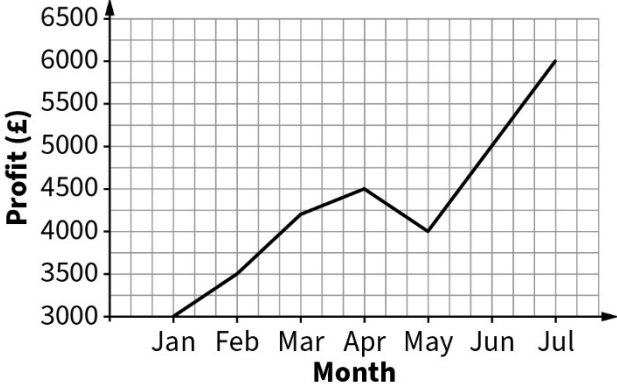


# Oxford Revise | Edexcel GCSE Maths Foundation | Answers

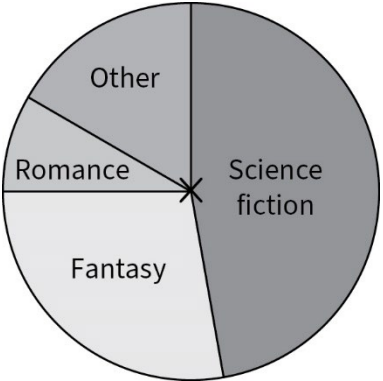
## Chapter 29 Tables, charts, and graphs

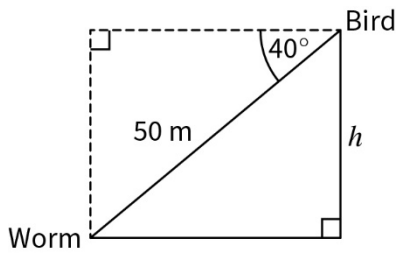
Question	Answer	Extra information	Marks						
29.1	Frequencies, top to bottom: 5, 6, 2, 5, 2	Maximum 1 error All correct	1 1						
29.2	13 children		1						
29.3 (a)	30 children are represented by 7.5 cones, so each cone represents 4 children		1						
29.3 (b)	$10.5 \times 4 = 42$		1						
29.3 (c)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Vanilla</td> <td style="text-align: center;"></td> </tr> <tr> <td>Strawberry</td> <td style="text-align: center;"></td> </tr> <tr> <td>Chocolate</td> <td style="text-align: center;"></td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 10px; display: inline-block;"> <p><b>Key</b></p>  = _____ children         </div>	Vanilla		Strawberry		Chocolate		5 ice creams drawn for vanilla	1 1 1
Vanilla									
Strawberry									
Chocolate									

Question	Answer	Extra information	Marks										
29.4	 <table border="1" data-bbox="241 475 869 879"> <caption>Data from Bar Chart</caption> <thead> <tr> <th>Type of travel</th> <th>Number of people</th> </tr> </thead> <tbody> <tr> <td>Car</td> <td>15</td> </tr> <tr> <td>Walk</td> <td>7</td> </tr> <tr> <td>Bus</td> <td>3</td> </tr> <tr> <td>Train</td> <td>5</td> </tr> </tbody> </table>	Type of travel	Number of people	Car	15	Walk	7	Bus	3	Train	5	<p>Any linear scale on vertical axis and both axes labelled</p> <p>One correct bar</p> <p>Fully correct</p>	<p>1</p> <p>1</p> <p>1</p>
Type of travel	Number of people												
Car	15												
Walk	7												
Bus	3												
Train	5												
29.5 (a)	20		1										
29.5 (b)	$50 - 30 = 20$		1										

Question	Answer	Extra information	Marks																
29.5 (c)	 <table border="1" data-bbox="241 475 952 906"> <caption>Data for Question 29.5 (c)</caption> <thead> <tr> <th>Month</th> <th>Pairs of socks</th> <th>Pairs of shoes</th> </tr> </thead> <tbody> <tr> <td>January</td> <td>20</td> <td>20</td> </tr> <tr> <td>February</td> <td>45</td> <td>30</td> </tr> <tr> <td>March</td> <td>30</td> <td>45</td> </tr> </tbody> </table>	Month	Pairs of socks	Pairs of shoes	January	20	20	February	45	30	March	30	45	<p>Correct height of bar for March for either socks or shoes</p> <p>Fully correct</p>	<p>1</p> <p>1</p>				
Month	Pairs of socks	Pairs of shoes																	
January	20	20																	
February	45	30																	
March	30	45																	
29.6 (a)	 <table border="1" data-bbox="241 992 855 1380"> <caption>Data for Question 29.6 (a)</caption> <thead> <tr> <th>Month</th> <th>Profit (£)</th> </tr> </thead> <tbody> <tr> <td>Jan</td> <td>3000</td> </tr> <tr> <td>Feb</td> <td>3500</td> </tr> <tr> <td>Mar</td> <td>4200</td> </tr> <tr> <td>Apr</td> <td>4500</td> </tr> <tr> <td>May</td> <td>4000</td> </tr> <tr> <td>Jun</td> <td>5000</td> </tr> <tr> <td>Jul</td> <td>6000</td> </tr> </tbody> </table>	Month	Profit (£)	Jan	3000	Feb	3500	Mar	4200	Apr	4500	May	4000	Jun	5000	Jul	6000	<p>Any 6 points correctly plotted and joined with a straight line</p> <p>Fully correct</p>	<p>1</p> <p>1</p>
Month	Profit (£)																		
Jan	3000																		
Feb	3500																		
Mar	4200																		
Apr	4500																		
May	4000																		
Jun	5000																		
Jul	6000																		

Question	Answer	Extra information	Marks
29.6 (b)	The profits are increasing over time.		1
29.7 (a)	Attendance falling overall		1
29.7 (b)	Weeks 1 and 4	Both must be correct	1
29.7 (c)	Between 100 and 200 people		1
29.8	The sector with 16–24 year olds is a right angle, so: $200 \div 4 = 50$ people		1

Question	Answer	Extra information	Marks
29.9	<p>Angles: Sci fi 170°, Fantasy 100°, Romance 30°, Other 60°</p> 	<p>Correct proportion of each book type</p> <p>Angles correctly measured</p> <p>Fully labelled and correct</p>	<p>1</p> <p>1</p> <p>1</p>
29.10	No, as there might be fewer students at Summerton High	<p>Any comment that refers to not knowing how many students are at each school</p> <p>Convincing reasoning</p>	<p>1</p> <p>1</p>

Question	Answer	Extra information	Marks
29.11	$20 \div 4 = 5$ , so each side measures 5 cm $\text{Area} = 5^2 = 25 \text{ cm}^2$	Derive side length from perimeter Calculate area	1 1
29.12	 $h = 50 \sin 40^\circ = 32 \text{ m (2 sf)}$	Use of $\sin 40^\circ$ or $\cos 50^\circ$ $50 \sin 40^\circ$ Correct answer, to 2 sf	1 1 1