

GCSE Maths worksheet 11

Name _____

Group _____

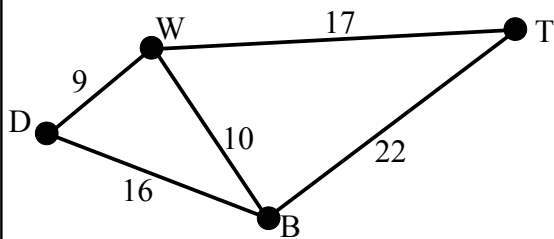
Don't use a calculator. Do all your working on this sheet. Answer all the questions.

1	<p>Flossie is collecting data about shoe sizes. She has decided to base her survey on British sizes, like $2\frac{1}{2}$, 3, $3\frac{1}{2}$, 4 and so on. Flossie is going to ask students to put their right foot on a shoe size gauge and write down the measurement. Which phrase below best describes the data Flossie is collecting?</p> <p>a) Discrete secondary data b) Continuous secondary data c) Discrete primary data d) Continuous primary data</p>																															
2	<p>Below is some of Flossie's data on shoe size.</p> <p>$7\frac{1}{2}$ 8 9 $5\frac{1}{2}$ 6 9 7 8 7 $8\frac{1}{2}$ $7\frac{1}{2}$ 7 6 7 9 7 $6\frac{1}{2}$ 7 7 6 $6\frac{1}{2}$ $5\frac{1}{2}$ 7 $6\frac{1}{2}$ $7\frac{1}{2}$ 6 7</p> <p>Use the table below to tally Flossie's data.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Shoe Size (UK)</th> <th style="text-align: center;">Tallies</th> <th style="text-align: center;">Frequency</th> </tr> </thead> <tbody> <tr><td style="text-align: center;">$5\frac{1}{2}$</td><td></td><td></td></tr> <tr><td style="text-align: center;">6</td><td></td><td></td></tr> <tr><td style="text-align: center;">$6\frac{1}{2}$</td><td></td><td></td></tr> <tr><td style="text-align: center;">7</td><td></td><td></td></tr> <tr><td style="text-align: center;">$7\frac{1}{2}$</td><td></td><td></td></tr> <tr><td style="text-align: center;">8</td><td></td><td></td></tr> <tr><td style="text-align: center;">$8\frac{1}{2}$</td><td></td><td></td></tr> <tr><td style="text-align: center;">9</td><td></td><td></td></tr> <tr> <td colspan="2" style="text-align: center;">Total of Frequencies</td> <td></td> </tr> </tbody> </table>	Shoe Size (UK)	Tallies	Frequency	$5\frac{1}{2}$			6			$6\frac{1}{2}$			7			$7\frac{1}{2}$			8			$8\frac{1}{2}$			9			Total of Frequencies			
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<p>3</p>	<p>Flossie wants to include a question about age group in her questionnaire. She has drafted the question/response section in the box below...</p> <div data-bbox="300 371 1208 521" style="border: 1px solid black; padding: 5px;"> <p>Please tick the age group that you belong to</p> <p>16 – 18 [] 18 – 24 [] 24 – 45 []</p> </div> <p>State two things are wrong with Flossie's question/response section.</p>	
<p>4</p>	<p>Hiren is carrying out a survey on how much time people spend listening to music. Hiren has drafted a question/response section in the box below...</p> <div data-bbox="300 1093 1208 1328" style="border: 1px solid black; padding: 5px;"> <p>How many hours do you listen to music for?</p> <p>0 [] 1 – 2 [] 2 – 6 [] 6 – 10 [] 10+ []</p> <p>Please tick ONE box</p> </div> <p>a) State two things that are wrong with Hiren's question/response section</p> <p>b) Draft a corrected version for Hiren to use...</p>	

5

Below is a map showing distances in miles by road between Dudley, Walsall, Tamworth and Birmingham.



Wei is planning his delivery route. He travels from Tamworth to Birmingham via Walsall and Dudley. How much further has Wei travelled than going direct from Tamworth to Birmingham?

6

Sophie is using the chart below to calculate her mileage claim for the week. She is allowed to claim 40p per mile for journeys.

Lichfield

10				Tamworth
10	17			Walsall
27	33	9		Dudley
23	22	10	9	Birmingham

Sophie's diary shows the following journeys...

Monday: From Birmingham to Tamworth then to Walsall then directly back to Birmingham

Wednesday: Birmingham to Dudley then to Lichfield then directly back to Birmingham

Calculate the total value of Sophie's claim.