

Canonbury Home Learning

**Year 6 Maths**

**Developing activity**

**Lesson 4**

**LO: TBAT interpret information on a bar chart.**

**Success Criteria:**

1. Read the graph.
2. To find information start with the x axis (horizontal line).
3. Then go up the y axis (vertical line).
4. To read data on a pictogram, ensure that you identify the value of the picture.

**Model**

Watch my model video clip on Class dojo.

**Now you try...**

**This bar chart shows the lengths of five films. Answer the questions.**

**1** Which film is the longest?  
**2** How many minutes longer is Film 1 than Film 4?  
**3** Which Film is about 30 minutes shorter than Film 3?  
**4** What is the total length of Films 1 and 3 altogether?

**Film lengths**

Film	Length (Minutes)
Film 1	75
Film 2	60
Film 3	90
Film 4	45
Film 5	65

**This pictogram shows the number of different types of films that Joe has in his collection.**

**5** How many Horror films does he have?  
**6** How many more Children's films does he have than Drama films?  
**7** Draw a bar chart to show the same information.

**Types of films**

Type	Number of Films
Comedy	8
Horror	6
Children's	6
Drama	2

● = 2 films

Canonbury Home Learning

**Year 6 Maths**

**Expected/ Greater depth activity**

**Lesson 4**

**LO: TBAT solve problems interpreting data on a bar chart.**

**Task:**

You are going apply your knowledge to solve several problems including interpreting data from bar charts.

**Success Criteria:**

- |  |
|--|
| 1. Read the graph.   |
| 2. To find information start with the x axis (horizontal line).                    |
| 3. Then go up the y axis (vertical line).  |
| 4. To read data on a pictogram, ensure that you identify the value of the picture. |

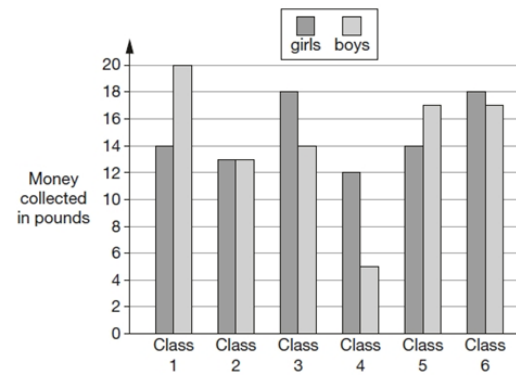
**Recap:**

Watch my model video clip on Class dojo.

Task 1	Task 2	Task 3	Task 4																														
<p><b>Practice</b></p> <p>Answer the questions about the pictogram. Then draw a bar chart that shows the same information.</p> <p>Length of songs in the Top 40</p> <p>1 How many songs in the Top 40 are 2 min 45s long?</p> <p>2 There are 12 songs that are the same length. How long are they?</p> <p>3 Which length of song is the least common?</p> <p>4 How many more songs are 2 min long than are 3 min long?</p> <p>5 How many songs are either 2 min 15s or 2 min 30s long?</p> <p>6 How many songs are less than 3 min long?</p>	<p><b>Arithmetic</b></p> <p>1 <math>3456 \times 0 =</math></p> <p>2 <math>189 \div 1 =</math></p> <p>3 <math>692 + 10 =</math></p> <p>4 <math>299 + 1 =</math></p> <p>5 <math>6 \times 8 =</math></p> <p>6 <math>805 - 49 =</math></p> <p>7 <math>99 \div 6 =</math></p>	<p><b>Problem Solving</b></p> <p><b>Task 1</b></p> <p>William asks the children in Year 2 and Year 6 if they walk to school. This graph shows the results.</p> <p>Altogether, how many children <b>don't</b> walk to school?</p> <p>How many <b>more</b> Year 6 children than Year 2 children walk to school?</p> <p><b>Task 2</b></p> <p>This graph shows the temperature in six cities on one day in January.</p> <p>Which city was 4 degrees <b>warmer</b> than Kiev?</p> <p>What was the <b>difference</b> between the temperature in Oslo and the temperature in Berlin?</p>	<p><b>Reasoning</b></p> <p><b>Task 1</b></p> <p>This table shows the number of things to eat in <b>five</b> children's lunch boxes.</p> <table border="1"> <thead> <tr> <th></th> <th>sandwiches</th> <th>apples</th> <th>bananas</th> <th>fruit bars</th> </tr> </thead> <tbody> <tr> <td>Lisa</td> <td>1</td> <td>2</td> <td>0</td> <td>2</td> </tr> <tr> <td>Jack</td> <td>2</td> <td>0</td> <td>2</td> <td>1</td> </tr> <tr> <td>Kemi</td> <td>1</td> <td>1</td> <td>0</td> <td>2</td> </tr> <tr> <td>Nik</td> <td>1</td> <td>2</td> <td>1</td> <td>0</td> </tr> <tr> <td>Ben</td> <td>2</td> <td>1</td> <td>2</td> <td>1</td> </tr> </tbody> </table> <p>Here is a graph of the information for <b>four</b> of the children.</p> <p>Which child's information is missing from the graph?</p> <p>Explain how you know.</p> <p><b>Task 2</b></p> <p>A survey was done to find out children's favourite season. This chart shows the results.</p> <p>How many more children chose autumn than chose spring?</p> <p>Kirsty says,</p> <p><b>'Exactly twice as many children chose summer as chose winter.'</b></p> <p>Is Kirsty correct? <b>Yes or No.</b> Explain how you know.</p>		sandwiches	apples	bananas	fruit bars	Lisa	1	2	0	2	Jack	2	0	2	1	Kemi	1	1	0	2	Nik	1	2	1	0	Ben	2	1	2	1
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### Task 3

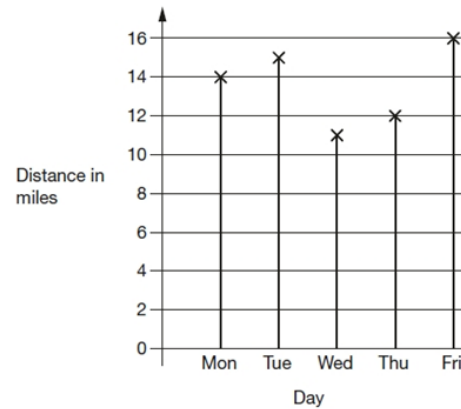
Six classes at Winward Primary School collected some money.  
The chart shows how much money the boys and girls collected.



In Class 4, how much more money did the girls collect than the boys?  
How many classes collected more than £30?

### Task 4

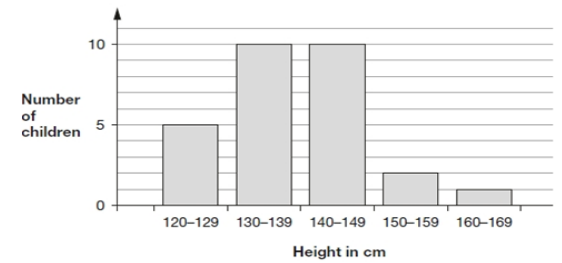
Amy went on a cycling holiday.  
This chart shows how far she cycled each day.



How much **further** did Amy cycle on Friday than on Wednesday?  
How far did Amy cycle **altogether** on the three days she cycled the most?

### Task 3

The graph shows the heights of 28 children in Alfie's class, to the nearest centimetre.



Alfie is 153 cm tall.  
He says,  
*'Only one person in my class is taller than I am.'*  
Emma says,  
*'You can't tell this from the graph.'*  
Explain why Emma is correct.