

# Maths challenges

These are optional challenges to work on :)  
The answers will be posted on Friday.

# Monday

## Explain

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**A school have been collecting data about:**

The number of animals seen in the nature area.

How children travel to school.

Attendance for the six KS2 classes each half-term.

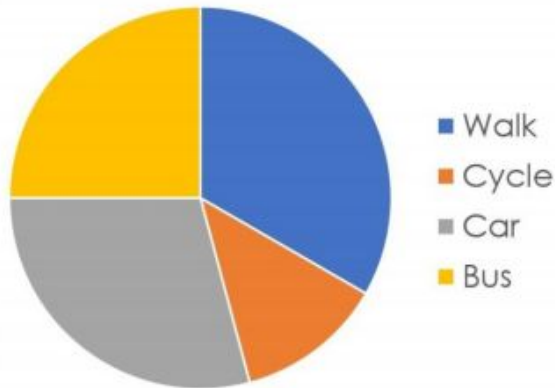
***In each case, which type of graph should be used to represent the information?***

# Tuesday

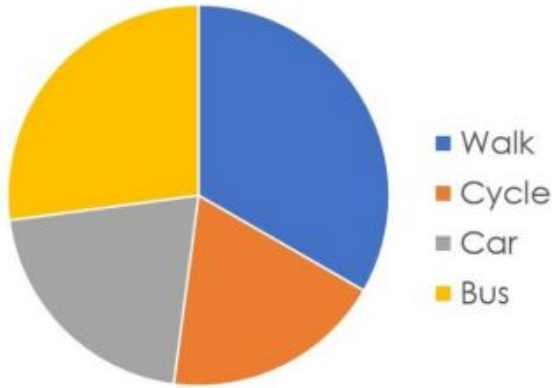
## Explain

Marton Vale Primary ran an 'Active Start' project, encouraging children to walk or cycle to school. They wanted to **improve children's fitness** and **reduce traffic congestion** around school.

Mode of Travel to School, February



Mode of Travel to School, May



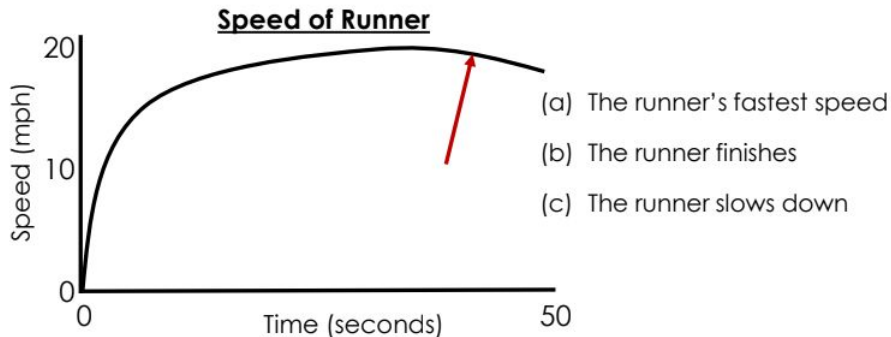
***How successful was the 'Active Start' project?***

# Wednesday

## Which answer?

This graph shows the speed of a 400m runner.

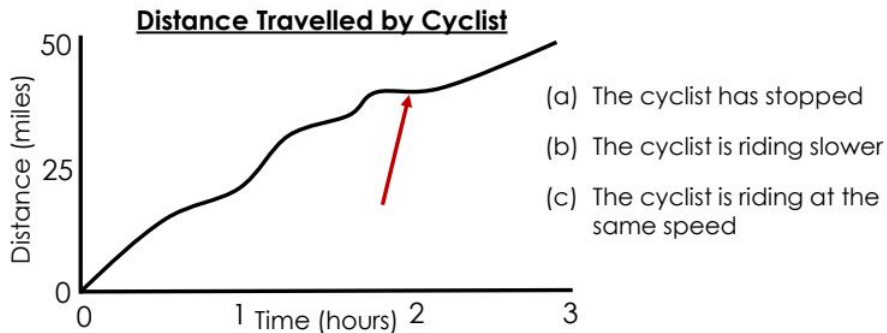
**What is happening at the point showed by the arrow?**



## Which answer?

This graph shows the distance travelled by a cyclist.

**What is happening at the point showed by the arrow?**



# Thursday

## Explain

Sam lives in Lancaster. He has a job interview at an office which is a 20-minute walk from Manchester Piccadilly train station. His interview starts at 10:15am.

**Here is the train timetable:**

<b>Penrith</b>	7:19	7:45	8:11	8:32
<b>Lancaster</b>	7:58	8:24	8:50	9:11
<b>Preston</b>	8:18	8:44	9:10	9:31
<b>Wigan</b>	8:30	8:56	9:22	9:43
<b>Manchester Piccadilly</b>	9:01	9:27	9:53	10:14
<b>Manchester Airport</b>	9:07	9:43	10:09	10:30

***At what time does Sam need to arrive at Lancaster train station?***