# Big Strides!

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| Click or tap here to enter text. |

**Student Name:**

## Data Analysis

Research has shown that a person’s height is directly related to the length of their step (this is called their stride). They have calculated that your stride length (cm) is approximately 43% of your total height (cm).

1. **To calculate your stride length, use a ruler to measure your height (cm) and follow the formula below:**

### Click or tap here to enter text.

### Click or tap here to enter text.

### If every step you took equaled your calculated stride length then approximately how far would you travel if you took 75 steps?

### Click or tap here to enter text.

### Click or tap here to enter text.

1. **A better unit of measurement for this distance is metres (m) and kilometres (km). Convert your total distance (cm) to both metres (m) and kilometres (km) below.**

### Click or tap here to enter text.

1. **Do you believe centimetres, meters or kilometres is the best unit to display distance travelled when taking 75 steps? Why?**

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| Click or tap here to enter text. |

**Further Analysis**

According to the census data, the average height of a Grade 5/6 student is 147.6cm. The AFL has calculated that the average height of a male player is 185cm.

### Calculate the stride length (cm) of an average Grade 5/6 student?

### Click or tap here to enter text.

### Click or tap here to enter text.

### Calculate the stride length (cm) of an average AFL player?

### Click or tap here to enter text.

### Click or tap here to enter text.

1. **Create a column graph comparing the stride length (cm) of an average Grade 5/6 student, average AFL player and yourself.** *Once you have finished take a photo or screen show of your graph and insert in the box below.*

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**Extension**

**How many steps would it take the average Grade 5/6 student to cover 14.5km? This is the average distance Patrick Dangerfield covers in an AFL match.**