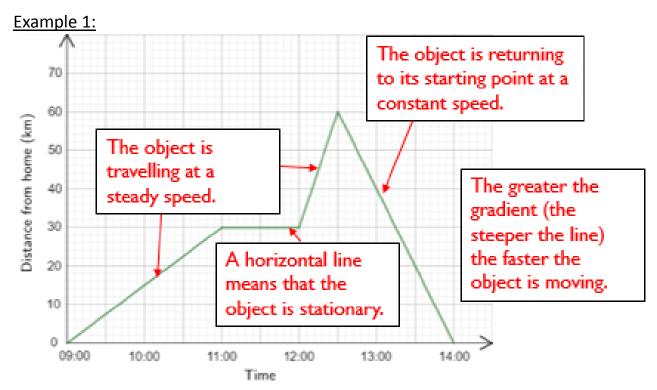


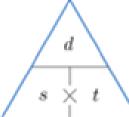
# Knowledge Organiser: Real-life Graphs (9a)

### What you need to know: Interpret Real-life graphs



The speed of an object can be calculated from the gradient of the graph.

E.g. calculate the speed at which the object travelled between 9am and 11am.



#### **Key Terms:**

- Journey
- Distance
- Horizontal
- Vertical
- Axis
- Conversion
- Starting point
- Gradient
- Constant
- Speed
- Represents

## Hegarty maths clip numbers

**Topic: Interpreting Real-life** graphs - 894

Topic: Drawing Real-life Graphs - 895

#### **Key Facts:**

Draw and interpret real life graphs, including distance-time and conversion graphs

Understand how the vertical axis represents the distance from starting point.

Understand how the horizontal line on a distance time graph represents an object at rest.

The gradient of the line represents the speed of the journey



# Knowledge Organiser: Real-life graphs (9a)

### What you need to know:

## Drawing a conversion graph

You can plot known conversions on a graph to help you to convert other unknown amounts.

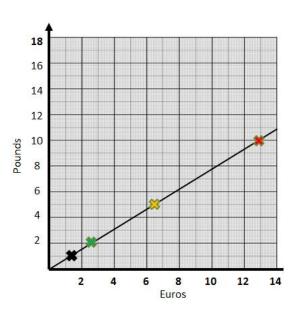
Current exchange rate

£1 = € 1.29

£2 = € 2.58

£5 = € 6.45

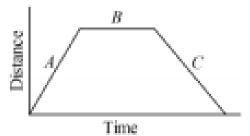
£ 10 = € 12.90



<u>Example 3:</u> Interpreting a conversion graph Can you use the graph to convert 10 Pounds into Euros?

Answer = €12.90

## **Example 2:** Using the graph below, identify what A, B and C mean in terms of travel.

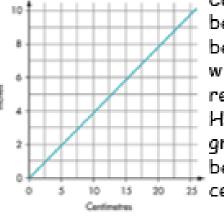


A = steady speed,

B = no movement,

C = steady speed back to start

## Using a conversion graph



Conversion graphs can
be used to convert
between any 2 units
which have a linear
relationship,
Here, you can use the
graph to convert
between inches and
centimetres