PLOTTING AND INTERPRETTING GRAPHS



TYPES OF GRAPH



NON-LINEAR GRAPHS



DISTANCE-TIME GRAPHS



USING GRAPHS



Gradient – The extra cost incurred for every extra hour. **y-intercept** – The minimum payment to the plumber.



M932, M658 M843, M771

Key Words Conversion graph: A graph which converts between two variables. Intercept: Where two

graphs cross. y-intercept: Where a graph crosses the yaxis.

Gradient: The rate of change of one variable with respect to another. This can be seen by the steepness. **Simultaneous:** At the same time.

Tip The solution to two linear equations with two unknowns is the coordinates of the intercept (where they cross).



Examples

What is the minimum taxi fair? **£2,** this is the y-intercept.

What is the charge per mile? **50p,** every extra mile adds on 50p.

How much would a journey of 5 miles cost? **£4.50,** See line drawn up from 5 miles to the graph, then drawn across to find the cost.

Questions

1) For the graph above a) A journey is 8 miles, what is its cost?b) A journey cost just £3, how far was the journey?

2) Draw a graph to show the exchange rate f1 = \$1.4.