

---

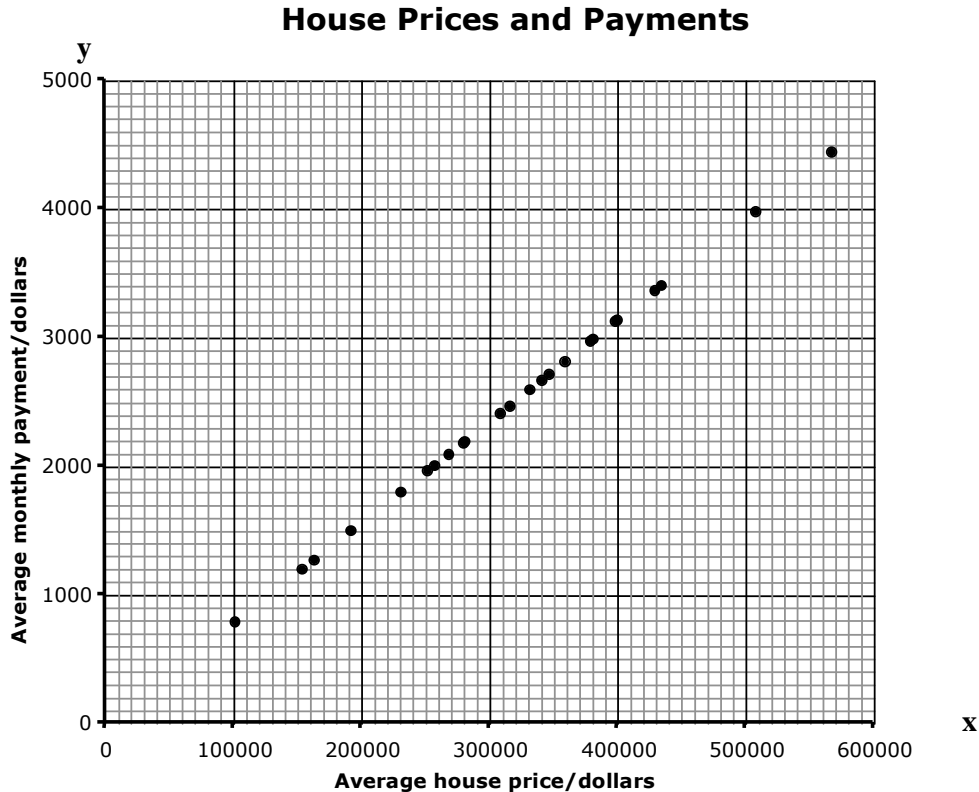
## House Prices

This problem gives you the chance to:

- work with graphs and formulas in a real context
- 

In March 2006, a newspaper article reported that houses in Maryland are so expensive that many people are unable to afford the monthly house payments.

This graph shows the average house price and the average monthly payment for all the different counties in Maryland.



1. a. What does the pattern of the data indicate about the connection between house prices and monthly payments?

---

---

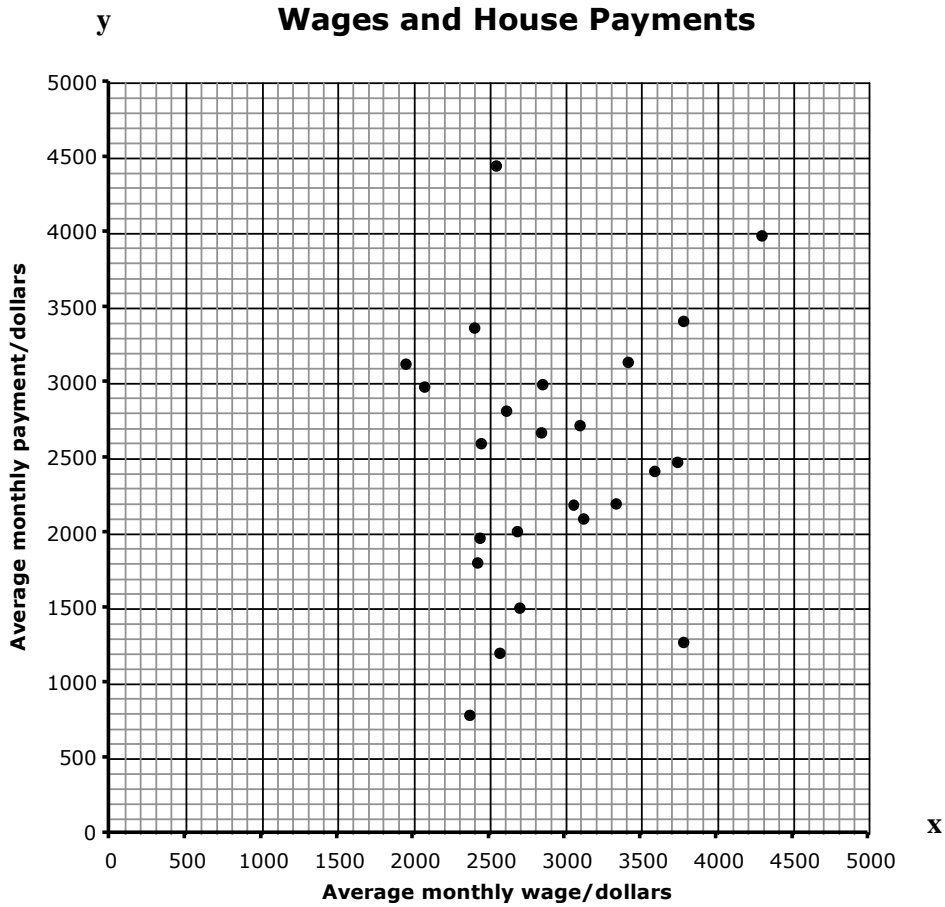
- b. Find the monthly payment for a house costing \$450 000.

---

- c. Find a formula connecting the average monthly payment with the average house price.

---

This graph shows the average monthly wage and the average monthly house payment for each county in Maryland.



2.

a. Describe the pattern of the data. \_\_\_\_\_

\_\_\_\_\_

b. Draw a ring round the point representing the county where the average person will find it most difficult to afford the monthly house payment. Label this point with the letter A.

c. Draw a ring round the point representing the county where the average person will find it easiest to afford the monthly house payment. Label this point with the letter B.

d. Indicate clearly which part of the graph contains points representing counties where the average monthly house payment is more than the average monthly wage.

\_\_\_\_\_

7