![C:\Users\ben\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\3V1EJPZE\MC900370126[1].wmf]()**Finding the gradient**

Objective: to be able to find the gradient of a line between 2 points and from a line.

Starter questions

**Copy and highlight:**

Gradient**=** $\frac{Difference in y}{Difference in x}$

What is the gradient of the line:

1. Y=4x + 2
2. Y=x+6
3. Y=8-x
4. 3y=9x+18
5. 2y-2x=10

Write a definition of the word **GRADIENT.**

What is the difference between a line with a positive gradient and a line with a negative gradient.

1. **Find the gradient between the points:**
2. **(3,5) and (4,7)**
3. **(5,9) and (7,17)**
4. **(4,6) and (5,7)**
5. **(1,4) and (4,19)**
6. **(0,11) and (4,23)**
7. **Find the gradient between these points:**
	1. **(2,5) and (3,-3)**
	2. **(2,8) and (3,2)**
	3. **(4,8) and (4,8)**
	4. **(8,15) and (6,33)**
	5. **(7,12) and (4,42)**
	6. **(4,8) and (3,14)**
8. **Find the gradient between these points:**
	1. **(3,5) and (4,5.5)**
	2. **(5,9) and (7,8)**
	3. **(4,6) and (5,6.75)**
	4. **(1,4) and (4,4.75**
	5. **(0,11) and (4,11.4)**

**Star questions**

**Write down two points which will be connected to give a line with a gradient of:**

**1. 2**

**2. 3**

**3. -5**

**4. 0.5**

**5. -0.75**