**Year 8 Math**

One team member to record the results

A *different* team member to draw the graph and label intercepts and gradient on the whiteboard

The other team member to answer the following questions:

1. Sketch a graph of the following linear relationship

y=x+1



1. State the x-intercept for the line
2. State the coordinate of the x-intercept
3. State the y-intercept for the line
4. State the coordinate of the y-intercept
5. State whether the gradient is positive or negative

**Year 8 Math**

One team member to record the results

A *different* team member to draw the graph and label intercepts and gradient on the whiteboard

The other team member to answer the following questions:

1. Sketch a graph of the following linear relationship

y = 5x



1. State the x-intercept for the line
2. State the coordinate of the x-intercept
3. State the y-intercept for the line
4. State the coordinate of the y-intercept
5. State whether the gradient is positive or negative

**Year 8 Math**

One team member to record the results

A *different* team member to draw the graph and label intercepts and gradient on the whiteboard

The other team member to answer the following questions:

1. Sketch a graph of the following linear relationship

y = -3x + 6



1. State the x-intercept for the line
2. State the coordinate of the x-intercept
3. State the y-intercept for the line
4. State the coordinate of the y-intercept
5. State whether the gradient is positive or negative

**Year 8 Math**

One team member to record the results

A *different* team member to draw the graph and label intercepts and gradient on the whiteboard

The other team member to answer the following questions:

1. Sketch a graph of the following linear relationship

y = -x + 4



1. State the x-intercept for the line
2. State the coordinate of the x-intercept
3. State the y-intercept for the line
4. State the coordinate of the y-intercept
5. State whether the gradient is positive or negative

**Year 8 Math**

One team member to record the results

A *different* team member to draw the graph and label intercepts and gradient on the whiteboard

The other team member to answer the following questions:

1. Sketch a graph of the following linear relationship

y = -2



1. State the x-intercept for the line
2. State the coordinate of the x-intercept
3. State the y-intercept for the line
4. State the coordinate of the y-intercept
5. State whether the gradient is positive or negative

**Answers:**



**y = x + 1**

x-intercept -1 coordinates (-1, 0)

y-intercept 1 coordinates (0, 1)

Gradient positive

**y = 5x**

x-intercept 0 coordinates (0, 0)

y-intercept 0 coordinates (0, 1)

Gradient positive

**y = -3x + 6**

x-intercept 2 coordinates (2, 0)

 y-intercept 6 coordinates (0, 6)

Gradient negative

**y = -x + 4**

x-intercept 4 coordinates (4, 0)

 y-intercept 4 coordinates (0, 4)

Gradient negative

**y = -2**

x-intercept none coordinates n/a

 y-intercept -2 coordinates (0, -2)

Gradien t zero