

National 5 Final Exam Revision

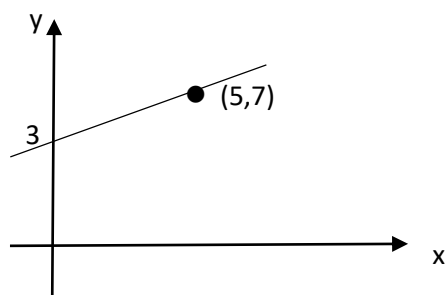
Geometric Skills

Straight Line Gradients and Graphs

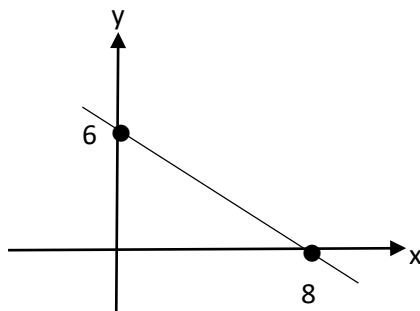
Average Allocation

2 / 3 Marks

1. A straight line passes through the points $A(k,4)$ and $B(2,1)$. Calculate k if the gradient of the line AB is $\frac{1}{2}$.
2. Calculate the gradient of the line PQ which is parallel to the line AB passing through the points $A(-1,3)$ and $B(1,-2)$.
3. Copy and complete: The gradient of a horizontal line is _____
4. The line passing through the points $P(a,-6)$ and $Q(3,2)$ is $\frac{4}{3}$. Find the value of a .
5. Find the gradient of the line AB shown below.



6. C is the point $(2,6)$ and D is the point $(-1,-5)$. Find the gradient of the line ST , parallel to the line which is CD .
7. Copy and complete: The gradient of a vertical line is _____.
8. Find the gradient of the line joining the points $S(2,-5)$ and $T(-5,1)$.
9. Work out the gradient of the line shown below. Give your answer in its simplest form.



10. The line KL passes through $(4,7)$ and $(a,-1)$ has a gradient of 2. Find the value of a .
11. S has coordinates $(-3,-5)$ and T has coordinates $(-7,3)$. Find the gradient of the line joining these points.
12. Find the gradient of the line shown below. Leave your answer in its simplest form.

