UNIT 5 Linear Graphs and Equations Mental Tests

M 5.1 Standard Route *(no calculator)*

You will need the Information Sheet

1.	Write down the coordinates of the point B.	(3, 3)
2.	Write down the coordinates of the point M.	(1, – 8)
3.	Write down the coordinates of the point N.	(– 4, – 2)
4.	Write down the coordinates of the point F.	(– 2, 6)
5.	Which point has coordinates (0, 8)?	(G)
6.	Which point has coordinates (2, 10)?	(H)
7.	Which point has coordinates (– 4, 4)?	(E)
8.	Which point has coordinates (– 4, – 2)?	(N)
9.	Which point has the same x-coordinate as point K ?	(L)
10.	Which point has the same y-coordinate as point K ?	(J)

M 5.2 Academic Route *(no calculator)*

You will need the Information Sheet

1.	Write down the coordinates of the point P.	(8, 0)
2.	Write down the coordinates of the point R.	(– 4, 2)
3.	Which point has coordinates (– 2, 6)?	(F)
4.	Which point has coordinates (– 4, – 2)?	(N)
5.	What is the gradient of a line that joins the points E and F ?	(1)
6.	What is the gradient of a line that joins the points R and F ?	(2)
7.	What is the gradient of a line that joins the points R and A ?	$(-\frac{1}{5})$
8.	The points A, B, C and D lie on a straight line. What is the equation of the line?	$(y = x)$
9.	The points E and J lie on a straight line. What is the equation of the line?	$(y = -x)$
10.	Which point has the same y-coordinate as point K?	(J)

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M 5.3 Express Route *(no calculator)*

You will need the Information Sheet

1.	Write down the coordinates of the point L.	(6, – 7)
2.	Write down the coordinates of the point F.	(– 2, 6)
3.	Which point has coordinates (– 4, 4)?	(E)
4.	What is the gradient of a line that joins the points Q and J ?	$(\frac{1}{7})$
5.	What is the gradient of a line that joins the points R and F ?	(2)
6.	What is the gradient of a line that joins the points M and H ?	(18)
7.	What is the gradient of a line that joins the points Q and L ?	$(-\frac{3}{10})$
8.	The points E, F, G and H lie on a straight line. What is the equation of the line?	$(y = x + 8)$
9.	The points E and J lie on a straight line. What is the equation of the line?	$(y = -x)$
10.	The points F and S lie on a straight line. What is the equation of the line?	$(y = -2x + 2)$

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Information Sheet