PLOTTING LINEAR GRAPHS

Answer all of these questions. Remember to show your working out in all questions.

MAIN QUESTIONS

1.	1, 1	2.	2, 3
3.	-1, 4	4.	0, 5
5.	3, -2	6.	-4, 0
7.	1/2, 2	8.	-3/4, 1
9.	5, -1/2	10.	-2, 3/4
11.	0, -3	12.	4/3, 0
13.	-1/5, -2	14.	7, 1/3
15.	-5/2, 4	16.	3/5, -1/2
17.	-2/7, 5/6	18.	0, 0
19.	8, -3/4	20.	-6, 2/5
21.	9/4, -1/3	22.	-3/8, -7/2
23.	5/6, 4/9	24.	-7/3, 0
25.	0, 4/5	26.	10, -5/6
27.	-4/5, 3/7	28.	11/2, -8/3
29.	-9/4, -2/5	30.	12/5, 7/8

MASTER QUESTIONS

M1. A taxi charges a fixed fee of £2.50 plus £1.80 per kilometre. Write the equation for total cost (y) in pounds for x kilometres travelled.

M2. The temperature decreases by 0.4°C per hour from an initial reading of 15°C. Write the equation for temperature (y) after x hours.

M3. A plant is 30 cm tall and grows 2.5 cm per week. Write the equation for height (y) in cm after x weeks.

M4. A car's fuel tank has 45 litres initially and consumes 0.06 litres per kilometre. Write the equation for remaining fuel (y) in litres after x kilometres.

M5. A swimming pool loses 3 cm of water per day from an initial depth of 120 cm. Write the equation for water depth (y) in cm after x days.

M6. A candle burns at 1.2 cm per hour from an original length of 25 cm. Write the equation for length (y) in cm after x hours.

M7. A phone plan costs £12 monthly plus £0.15 per text. Write the equation for total cost (y) in pounds for x texts sent.

M8. A rainwater tank fills at 8 litres per minute from an initial 200 litres. Write the equation for volume (y) in litres after x minutes.

M9. A lorry depreciates by £1200 annually from a purchase price of £15000. Write the equation for value (y) in pounds after x years.

M10. A printer uses 0.8 sheets per minute from a 500-sheet tray. Write the equation for remaining sheets (y) after x minutes.