

SCIENCE 10

GRAPHING EXERCISE

FOR EACH OF THE LINES ON THE NEXT PAGE, SOLVE THE FOLLOWING:

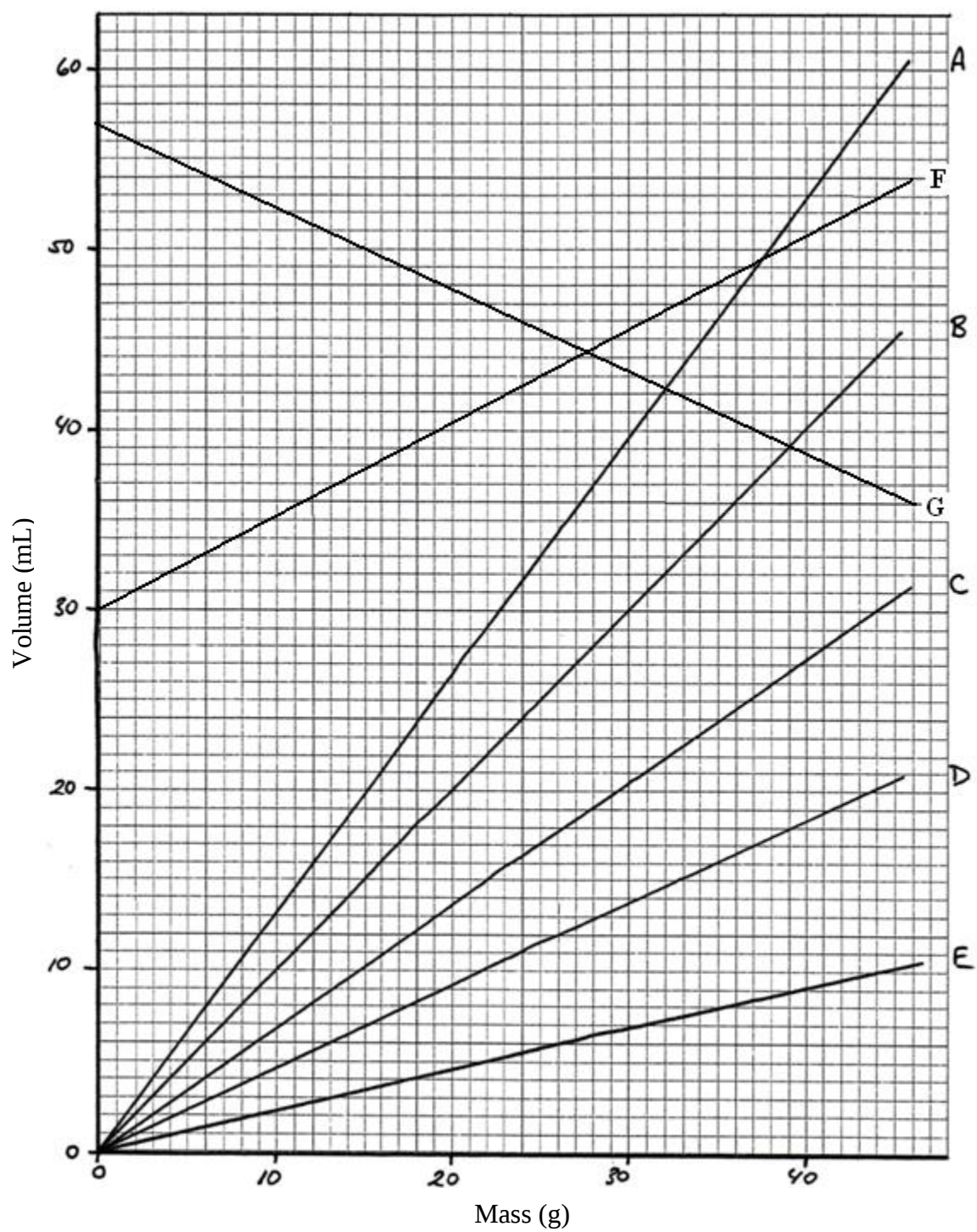
1. The slope of the line.

Use the line equation ($y = mx + b$) to calculate each of the following:

2. The volume (mL) when the mass is 45g.
3. The mass (g) when the volume is 27 mL.
4. The mass when the volume is 73.5 mL.
5. The volume when the mass is 100 g.

Show all work for each calculation.

Volume (mL) vs. Mass (g)



Answer Key

Line A

1. Slope = 1.32 mL/g
2. 59.4 mL
3. 20.45 g
4. 55.68 g
5. 132 mL

Line B

1. Slope = 1.0 mL/g
2. 45.00 mL
3. 27.00 g
4. 73.50 g
5. 100.00 mL

Line C

1. Slope = 0.68 mL/g
2. 30.60 mL
3. 39.71 g
4. 108.09 g
5. 68 mL

Line D

1. Slope = 0.46 mL/g
2. 20.70 mL
3. 58.70 g
4. 159.78 g
5. 46 mL

Line E

1. Slope = 0.29 mL/g
2. 13.05 mL
3. 93.10 g
4. 253.45 g
5. 29 mL