1

1

1

1

1

1

Mark schemes

= 39.8 %

Q1.

(a) displacement

(b)
$$\frac{63.5}{159.5} \times 100$$

(c) volume of copper sulfate solution

(e) (maximum temperature change) = 47 – 22 (°C)

(f) (conversion 25 cm 3 =) 0.025 dm 3

(concentration =)
$$\frac{6.75}{0.025}$$
 (g/dm³)

allow correct use of an incorrectly determined or unconverted volume

= 270 (g/dm³)

(g) line of best fit using the first five points

max 1 mark if the lines do not intersect

line of best fit using the last four points

(h) energy is **taken in from** the surroundings so the reaction is **endothermic**

[14]