

Mrs. Gregory & Mrs. Postlethwaite's group – Reasoning and problem solving answers

Bronze

- 1a. C. The perimeter of C = 30cm, but both A and B have a perimeter of 26cm.**
- 2a. 4cm and 2cm.**
- 3a. No; when added together all the sides total 22cm.**

- 1b. B. The perimeter of B = 24cm, but both A and C have a perimeter of 22cm.**
- 2b. 3cm and 2cm.**
- 3b. No; when added together all the sides total 26cm.**

Silver

- 4a. A. The perimeter of A = 22cm, but both B and C have a perimeter of 28cm.**
- 5a. Various answers, for example: 4mm, 4mm, 4mm, 2mm, 2mm and 7mm.**
- 6a. No; the missing measurements are 9cm and 1cm, so the perimeter is 38cm.**

- 4b. B. The perimeter of B = 20mm, but both A and C have a perimeter of 24mm.**
- 5b. Various answers, for example: 5cm, 1cm, 1cm, 6cm, 4cm and 4cm.**
- 6b. No; the missing measurements are 3mm and 1mm so the perimeter is 42mm.**

Gold

- 7a. B. The perimeter of B = 26cm, but both A and C have a perimeter of 30cm.**
- 8a. Various answers, for example: 3cm, 5cm, 2cm, 8cm, 2cm, 2cm, 3cm, 2cm, 2cm.**
- 9a. No; the missing measurements are 5cm, 3cm, 4cm and 3cm, so the perimeter is 42cm.**

- 7b. A. The perimeter of A = 32cm, but both B and C have a perimeter of 28cm.**
- 8b. Various answers, for example: 2cm, 2cm, 2cm, 2cm, 3cm, 4cm, 2cm, 4cm.**
- 9b. No; the missing measurements are 3cm and 9cm, so the perimeter is 40cm.**