

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

Bronze

- 1a. B is the odd one out because  $C \div 10 = A$   
2a. 5 counters in the tens column, 2 counters in the ones  
3a. Freya is not correct because she has only moved the counters in the ones column. The correct answer is 2.4

- 1b. A is the odd one out because  $C \div 10 = B$   
2b. 4 counters in the tens column, 3 counters in the ones  
3b. Oscar is correct because he has moved the counters one column to the right to find the answer 3.2

Silver

- 4a. C is the odd one out because  $A \div 10 = B$   
5a.  $36 \div 10 = 3.6$ ,  $58 \div 10 = 5.8$ ,  $93 \div 10 = 9.3$   
6a. Callie is not correct because she has moved the counters right instead of down. The correct answer is 7.1

- 4b. C is the odd one out because  $B \div 10 = A$   
5b.  $25 \div 10 = 2.5$ ,  $86 \div 10 = 8.6$ ,  $47 \div 10 = 4.7$   
6b. Fletcher is not correct because he has not moved the counters. The correct answer is 5.4

Gold

- 7a. 5.4 is the odd one out because it is the only number which cannot be used in a division by 10 number sentence.  $81 \div 10 = 8.1$ ,  $24 \div 10 = 2.4$ ,  $45 \div 10 = 4.5$ ,  $67 \div 10 = 6.7$   
8a.  $59 \div 10 = 5.9$ ,  $76 \div 10 = 7.6$ ,  $15 \div 10 = 1.5$   
9a. Yasmin is incorrect because  $92 \div 10 = 9.2$ .  $920 = 92 \times 10$ .

- 7b. 2.3 is the odd one out because it is the only number which cannot be used in a division by 10 number sentence.  $95 \div 10 = 9.5$ ,  $51 \div 10 = 5.1$ ,  $32 \div 10 = 3.2$ ,  $46 \div 10 = 4.6$   
8b.  $27 \div 10 = 2.7$ ,  $83 \div 10 = 8.3$ ,  $64 \div 10 = 6.4$   
9b. Imran is incorrect because  $77 \div 10 = 7.7$ .  $0.77 = 77 \div 100$ .