Bronze

1b. 0.34, 0.24, 0.22
2b. 0.75kg
3b. 0.74, 0.22, 0.61
4b. False. The difference is 0.14
5b. Various representations possible. The difference is 0.33
1b. Incorrect 0.21 < 0.44; incorrect 0.08 < 0.8; incorrect 0.06 < 0.6; correct 0.53 < 0.55
2b. 0.51m, 0.32m, 0.73m, 0.11m, 0.02m
3b. Correct; 0.86 – 0.24 = 0.62

Silver

6b. 0.273, 0.193, 0.191
7b. 0.575kg
8b. 0.216, 0.605, 0.323
9b. True.
10b. Various representations possible. The difference is 0.347
4b. Incorrect 0.809 > 0.739; incorrect 0.106 = 0.106; incorrect 0.434 < 0.47; incorrect 0.109 > 0.091
5b. 0.307cm, 0.114cm, 0.356cm, 0.263cm, 0.417cm
6b. Incorrect. Taking the smallest number away from the largest number gives an answer < 0.9

Gold

11b. 0.483
12b. 0.375kg
13b. 0.278, 0.685, 0.113
14b. False. The difference is 0.689
15b. 0.077
7b. Incorrect 0.046 > 0.039; correct 0.087 > 0.077; incorrect 0.394 > 0.384; correct 0.603 = 0.603
8b. 0m, 0.106m, +0.011m, 0.243m, 0.575m
9b. Incorrect because 0.987 – 0.123 = 0.864

Challenge

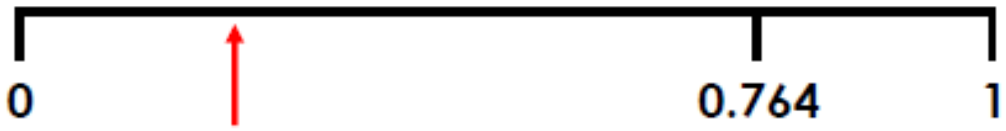
1. Callum and Jessica like different strengths of orange juice. Callum makes his drink using 0.107 litres of concentrated juice, while Jessica uses twice as much.

If they share a one litre bottle of concentrated juice, how many servings can they each have?
They can each have three servings (there will be 0.037 litres remaining).

If the two friends drink an unequal number of servings, what possible combinations might there be?
Various possible answers, for example: Callum could make five drinks (0.535 litres) and Jessica could make two drinks (0.428 litres), leaving 0.037 litres remaining.

2. Estimate the decimal indicated by the arrow on the number line below. Fill in the number sentence with your estimate as the answer.

Various possible answers, for example:



0.764 − 0.527 = 0.237

Is your answer the same as your partner's? Children may have various answers.

What is the difference between your two answers? Children may have various answers.