

## Bronze

1a.  $0.7 + 0.4 = 1.1$

2a.  $0.5, 0.25; 0.5 + 0.75 = 1.25$

3a.  $1.17$

4a.  $1.02$

1b. Ben is not correct because  $0.62\text{L} + 0.43\text{L} = 1.05\text{L}$ . The other bottle contains  $0.53\text{L}$ .

2b.  $0.79\text{m}$

3b.  $=, =, >$

## Silver

5a.  $0.73 + 0.3 = 1.03$

6a.  $0.375, 0.2; 0.625 + 0.575 = 1.2$

7a.  $1.05$

8a.  $1.026$

4b. Ali is not correct because  $0.728\text{L} + 0.939\text{L} = 1.667\text{L}$ . The other bottle contains  $0.839\text{L}$ .

5b.  $0.916\text{m}$

6b.  $<, >, >, <$

## Gold

9a.  $0.87 + 0.655 = 1.525$

10a.  $0.475$  and  $0.3; 0.525 + 0.775 = 1.3$

11a.  $1.898$

12a.  $1.213$

7b. Jay is not correct because  $0.958\text{L} + 866\text{ml} = 1.824\text{L}$ . The other bottle contains  $876\text{ml}$  or  $0.876\text{L}$ .

8b.  $0.878\text{km}$  or  $878\text{m}$

9b.  $>, >, <$

## Challenge

1. Take a look at the additions below. Use the number cards provided to complete the sums. You must make sure at least 1 exchange occurs.

You can use each number card up to two times in each sum (numbers already shown do not count).

A.

$$\begin{array}{r} 0 . \square \square \square \\ + 0 . \square \square \square \\ \hline \square . \square \square \square \end{array}$$

B.

$$\begin{array}{r} 0 . 7 \square 0 \\ + 0 . 9 \square \square \\ \hline \square . \square \square \square \end{array}$$



Various answers including: A.  $0.398 + 0.764 = 1.162$ ; B.  $0.710 + 0.965 = 1.675$

2. Charlie has a small suitcase that can carry a maximum weight of 2.00 kg. He has already packed his favourite toy which weighs 0.191 kg and some essentials which weigh 0.341 kg more. He also wants to pack some gifts.

How many different gifts could he take with him without going over his limit?



He can take 4 presents with him.

Various answers including:  $0.191 + 0.341 = 0.532$  kg weight already in his suitcase.

$0.211 + 0.212 + 0.331 + 0.392 = 1.146$  kg weight of 4 presents.

0.322 kg left.