

## Reasoning and Problem Solving

### Kilograms and Kilometres

#### Developing

- 1a. 3,000g, 1,000g  
2a. Various possible answers, for example:  
60kg > 7,000g, 7,000g > 2,000g,  
2,000g < 60kg  
3a. Beth is correct. 2 packs of strawberries  
weigh 1,000g. 1,000g is equivalent to 1kg.  
1kg of strawberries cost £4.00.

#### Expected

- 4a. First row: 1.6km  
Second row: 4.3km  
Third row: 0.2km  
5a. Various possible answers, for example:  
3,300m > 2,800m, 2,800m > 2.5km,  
2.5km < 3,300m  
6a. Nadia is correct. 1,500g is equivalent  
to 1.5kg. 1 kg costs £2.60 so 0.5kg would  
cost £1.30. £2.60 + £1.30 = £3.90.

#### Greater Depth

- 7a. First row: 3.09km  
Second row: 4.85km  
Third row: 1.15km  
8a. Various possible answers, for example:  
4,500g > 4.05kg, 4,500g > 4,320g,  
4,320g > 4.05kg  
9a. Ruby is not correct.  
20 apples would weigh  $20 \times 105\text{g} =$   
2,100g, which is equivalent to 2.1kg. 2kg  
of apples would cost  $2 \times £1.60 = £3.20$  so  
2.1kg would cost more than £3.20.

## Reasoning and Problem Solving

### Kilograms and Kilometres

#### Developing

- 1b. 40,000m, 10,000m  
2b. 2kg = 2,000g, 5,000g > 2kg,  
5,000g > 2,000g  
3b. Jack is not correct.  $4 \times 500\text{g} = 2,000\text{g}$ .  
2,000g is equivalent to 2kg.  $2 \times £3 = £6$  so  
4 bunches of bananas would cost £6.00

#### Expected

- 4b. First row: 0.5kg  
Second row: 2.5kg  
Third row: 2.3kg  
5b. Various possible answers, for example:  
3.9kg > 3.3kg, 3.3kg < 3,500g,  
3,500 < 3.9kg.  
6b. Ewan is not correct.  
 $3 \times 500\text{g} = 1,500\text{g}$ , which is equivalent to  
1.5kg.  $1.5 \times £2.80 = £4.20$ .

#### Greater Depth

- 7b. First row: 4.74kg  
Second row: 2.31kg  
Third row: 6.15kg  
8b. Various possible answers, for example:  
3.7kg > 3.07kg, 3.7kg > 3,007g, 3.07kg >  
3,007g  
9b. Harrison is not correct.  
10 pears would weigh  $10 \times 252\text{g} = 2,520\text{g}$ ,  
which is equivalent to 2.52kg. 2.5kg would  
cost  $2.5 \times £1.90 = £4.75$  so 2.52kg would  
cost more than £4.75.