

Proportion L2 Mark Scheme		
1	3 eggs is 3 times as many eggs in the recipe. $3 \times 200 \text{ g} = 600 \text{ g}$	[1]
2	2 times as much carrots used. $2 \times 2 = 4$ litres of hot water	[1]
3	3 times as many teaspoons of salt used. $3 \times 500 \text{ g} = 1500 \text{ g}$	[1]
4(a)	4 cups is 2 times as many as 2 cups. $20 \text{ g} \times 2 = 40 \text{ g}$ of coffee	[1]
4(b)	$500 \text{ ml} \times 2 = 1000 \text{ ml}$ of hot water	[1]
5(a)	8 people is 4 times as many as the recipe serves. $4 \times 1 = 4$ stock cubes	[1]
5(b)	$4 \times 400 \text{ g} = 1600 \text{ g}$	[1]
6(a)	10 kg of cement is 2 times as much cement that he normally uses. $2 \times 6 = 12$ litres of water	[1]
6(b)	$2 \times 25 \text{ kg} = 50 \text{ kg}$ of aggregate	[1]
7	10 servings is 5 times as many as the recipe serves.	[1]
	$5 \times 300 \text{ ml} = 1500 \text{ ml}$ of limeade $5 \times 150 \text{ ml} = 750 \text{ ml}$ of lemonade $5 \times 50 \text{ ml} = 250 \text{ ml}$ of orange juice	[1]
8	12 servings is 3 times as much as the recipe serves.	[1]
	$3 \times 300 \text{ g} = 900 \text{ g}$ of pasta $3 \times 500 \text{ g} = 1500 \text{ g}$ of sauce $3 \times 100 \text{ g} = 300 \text{ g}$ of cheese	[1]

9	$500 \text{ g} \div 16 = 31.25 \text{ g}$ for 1 cupcake	[1]
	$4 \times 31.25 \text{ g} = 125 \text{ g}$ for 4 cupcakes	[1]
10	$4 \times 6 = 24$ weeks for 1 builder	[1]
	$24 \div 6 = 4$ weeks for 6 builders	[1]
11	$12 \text{ g} \div 100 = 0.12 \text{ g}$ of fibre per g of porridge	[1]
	$0.12 \text{ g} \times 40 = 4.8 \text{ g}$ for 40 g of porridge	[1]
12	$40 \div 5 = 8$ minutes per km	[1]
	$9 \times 8 = 72$ minutes for 9 km	[1]
13(a)	$3 \times 45 = 135$ minutes for 1 gardener	[1]
	$135 \div 5 = 27$ minutes for 5 gardeners	[1]
13(b)	$135 \div 2 = 67.5$ minutes for 2 gardeners	[1]
14(a)	$4 \times 300 = 1200$ leaflets per hour for 1 member	[1]
	$1200 \div 5 = 240$ leaflets per hour for 5 members	[1]
14(b)	$1200 \div 80 = 15$ members	[1]
15	$5 \div 8 = 62.5\text{p}$ per minute $10 \div 16 = 62.5\text{p}$ per minute $15 \div 24 = 62.5\text{p}$ per minute	[1]
	$20 \div 30 = 66.7\text{p}$ per minute	[1]
	The cost per minute is not the same for each fare, so the journey time and cost of fare are not directly proportional.	[1]