

S3 N5 AppProportion*Answers*

1) 1 cake $300\text{g} \div 6 = 50\text{g}$

a. 12 cakes $12 \times 50\text{g} = 600\text{g}$

b. 3 cakes $3 \times 50\text{g} = 150\text{g}$

c. 9 cakes $9 \times 50\text{g} = 450\text{g}$

2) 1 book $1.38 \div 6 = 0.23 \text{ kg}$

10 books $10 \times 0.23 = 2.3\text{kg}$

3) a. 1 basket $5.4 \div 3 = 1.8\text{kg}$

5 baskets $5 \times 1.8 = 9\text{kg}$

b. 1 cake $\pounds 3.12 \div 4 = \pounds 0.78$

9 cakes $9 \times 0.78 = \pounds 7.02$

4) 1 CD $\pounds 35.92 \div 4 = \pounds 8.98$

1 cassette $\pounds 15.78 \div 3 = \pounds 5.26$

a. $(3 \times \pounds 8.98) + (5 \times \pounds 5.26) = \pounds 53.24$

b. $(7 \times \pounds 8.98) + (2 \times \pounds 5.26) = \pounds 73.38$

5) $4\text{m} \times 7\text{m} = 28 \text{ square metres}$

1 square metre $\pounds 180.60 \div 28 = \pounds 6.45$

$5\text{m} \times 8\text{m} = 40 \text{ square metres}$ $40 \times \pounds 6.45 = \pounds 258$

6) 1 book $£123 \div 15 = £8.20$

$£73.80 \div £8.20 = 9$ books

7) 1 bottle fills $35 \div 5 = 7$ glasses

$49 \div 7 = 7$ bottles

8) $(15 \div 210) \times 378 = 27$ litres

9) 9 kg bag $£25.65 \div 9 = £2.85/\text{kg}$

20 kg bag $£57.20 \div 20 = £2.86/\text{kg}$

9 kg bag is better value, 1p cheaper per kg

10) 1 staff working would take $10 \times 30 = 300$ mins

6 staff working (less time) $300 \div 6 = 50$ mins

11) 1 persons food would last $144 \times 24 = 3456$ days

$144 + 48 = 192$ people $3456 \div 192 = 18$ days

12) 1 baker would take $5 \times 3 = 15$ hours

4 bakers $15 \div 4 = 3.75$ hours

3 hours and 45 mins