Year 10 · Number: Money, Rates & Growing Your Savings

Name: _____ Date: _____

Kia ora! This sheet gives you practice swapping between currencies, working out part-costs from a price per kilogram, and watching interest build up month by month. Grab a calculator and take your time.

Warm-up

1. Convert $50 NZD into Australian dollars if 1 NZD = 0.93 AUD.

2. A bag of rice costs $8.00 per kilogram. What is the cost of 400 g?

3. Find 2.5% of $100.

4. Convert 60 euros into NZD if 1 NZD = 0.56 EUR.

Practice

5. Mere is buying online from the USA. Convert $320 NZD into US dollars if 1 NZD = 0.61 USD.

6. At the New World deli, tasty cheese is priced at $22.00 per kilogram. How much would 350 g cost?

7. Tama invests $200 at 3% interest per month. Working month by month, how much does he have after 3 months?

8. Aroha is flying to Japan for a school trip. She changes $500 NZD into Japanese yen at a rate of 1 NZD = 89 yen. How many yen does she receive?

9. Rump steak at the butcher is $18.90 per kilogram. Whetu buys a 600 g piece. What does she pay?

10. Sione puts $150 into a scheme paying 2% per month. How much will he have after 4 months? (Work month by month.)

Challenge

11. At the supermarket, a 250 g block of chocolate costs $4.50, while a 400 g block costs $6.80. Which block is better value per kilogram, and by how much per kg?

12. Liam invests $500 at 1.5% per month compound interest. How much does he have after 6 months, and how much interest has he earned? (Round to the nearest cent.)

Answer key (for parents and tutors)

1. Convert $50 NZD into Australian dollars if 1 NZD = 0.93 AUD.
   50 × 0.93 = $46.50 AUD.
2. A bag of rice costs $8.00 per kilogram. What is the cost of 400 g?
   400 g = 0.4 kg. 8.00 × 0.4 = $3.20.
3. Find 2.5% of $100.
   2.5% = 0.025. 100 × 0.025 = $2.50.
4. Convert 60 euros into NZD if 1 NZD = 0.56 EUR.
   To go from euros to NZD, divide: 60 ÷ 0.56 = $107.14 (to the nearest cent).
5. Mere is buying online from the USA. Convert $320 NZD into US dollars if 1 NZD = 0.61 USD.
   320 × 0.61 = $195.20 USD.
6. At the New World deli, tasty cheese is priced at $22.00 per kilogram. How much would 350 g cost?
   350 g = 0.35 kg. 22.00 × 0.35 = $7.70.
7. Tama invests $200 at 3% interest per month. Working month by month, how much does he have after 3 months?
   Month 1: 200 × 1.03 = 206.00. Month 2: 206.00 × 1.03 = 212.18. Month 3: 212.18 × 1.03 = 218.5454 ≈ $218.55.
8. Aroha is flying to Japan for a school trip. She changes $500 NZD into Japanese yen at a rate of 1 NZD = 89 yen. How many yen does she receive?
   500 × 89 = 44,500 yen.
9. Rump steak at the butcher is $18.90 per kilogram. Whetu buys a 600 g piece. What does she pay?
   600 g = 0.6 kg. 18.90 × 0.6 = $11.34.
10. Sione puts $150 into a scheme paying 2% per month. How much will he have after 4 months? (Work month by month.)
    Month 1: 150 × 1.02 = 153.00. Month 2: 153.00 × 1.02 = 156.06. Month 3: 156.06 × 1.02 = 159.1812. Month 4: 159.1812 × 1.02 = 162.363624 ≈ $162.36.
11. At the supermarket, a 250 g block of chocolate costs $4.50, while a 400 g block costs $6.80. Which block is better value per kilogram, and by how much per kg?
    250 g block: 4.50 ÷ 0.25 = $18.00 per kg. 400 g block: 6.80 ÷ 0.40 = $17.00 per kg. The 400 g block is better value, by $18.00 – $17.00 = $1.00 per kg.
12. Liam invests $500 at 1.5% per month compound interest. How much does he have after 6 months, and how much interest has he earned? (Round to the nearest cent.)
    Month 1: 500 × 1.015 = 507.50. Month 2: 507.50 × 1.015 = 515.1125. Month 3: 515.1125 × 1.015 = 522.8391875. Month 4: 522.8392 × 1.015 = 530.681775. Month 5: 530.6818 × 1.015 = 538.642002. Month 6: 538.6420 × 1.015 = 546.721632 ≈ $546.72. Interest earned = 546.72 – 500 = $46.72.