

WA8MNAF1

Financial mathematics

Core + Challenge

Forms of Payment

I can compare cash, debit, credit, buy now pay later and lay-by, including surcharges and the total cost of each.

Name: _____ Date: _____ Score: _____ / 58

Key idea

Cash and **EFTPOS / debit card** spend your own money straight away – no interest, but you must have the money now. Cash totals round to the nearest 5c.

Credit card: the bank lends you the money. No interest if the whole balance is paid by the due date; otherwise interest is charged. Some shops add a **surcharge**.

Buy now, pay later (BNPL): take the item now and pay in instalments; late payments attract fees. **Lay-by:** pay in instalments, collect the item when it is fully paid.

Surcharge example: \$240 with a 1.5% card surcharge $\rightarrow 240 \times 0.015 = \$3.60$, so the total is **\$243.60** (or 240×1.015).

A Fluency *practise the skill*

/ 16 marks

Calculate each amount (Q1–13) or name the form of payment (Q14–16). 1 mark each.

- | | |
|--|---|
| 1. 1.5% surcharge on \$80 _____ | 9. Cash: \$17.93 rounds to _____ |
| 2. 1.5% surcharge on \$360 _____ | 10. Cash: \$24.02 rounds to _____ |
| 3. \$150 plus a 2% card surcharge _____ | 11. Change from \$50 for \$37.85 _____ |
| 4. \$180 in 4 equal BNPL payments _____ | 12. 6 payments of \$49.50: total _____ |
| 5. \$320 in 4 fortnightly payments: each _____ | 13. Surcharge %: \$2 on \$80 _____ |
| 6. Lay-by: \$285 item + \$15 fee. Total _____ | 14. Card that takes money straight from your bank account _____ |
| 7. Lay-by \$300 over 10 weeks: weekly _____ | 15. Collect item after paying in full _____ |
| 8. 1.2% surcharge on \$45 _____ | 16. Charges interest if not paid off _____ |

B**Core** *apply the skill to problems*

/ 22 marks

- 1 A laptop costs \$1200. Paying by credit card adds a 1.5% surcharge. Find the surcharge and the total cost when paying by credit card. [2 marks]

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Answer: _____

- 2 Mia buys sneakers for \$220 using buy now, pay later: 4 equal payments, one every fortnight, with the first payment made on the day of purchase. How much is each payment, and how many weeks after the purchase is the last payment? [2 marks]

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Answer: _____

- 3 A bike costs \$540 on lay-by. There is a \$10 lay-by fee, a deposit of 10% of the price, and the rest is paid in 8 equal weekly payments. [3 marks]
- (a) Find the deposit. (b) Find each weekly payment. (c) Find the total paid.

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- 4 A store gives three ways to pay for a \$900 TV. Find the total cost of each way, and the difference between the cheapest and the most expensive. [3 marks]

Way to pay	Conditions
Cash	5% discount for cash
Credit card	1.5% surcharge
Buy now, pay later	4 payments of \$225, no fee if on time

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Answer: _____

- 5 Give one advantage and one disadvantage of paying with a debit (EFTPOS) card rather than a credit card. [2 marks]

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- 6 At Coles, Tom's groceries come to \$63.47. He pays with a \$50 note and a \$20 note. Cash totals are rounded to the nearest 5 cents. How much change does he get? [2 marks]

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Answer: _____

- 7 A taxi fare is \$38.40. Paying by card adds a 5% surcharge. Find the surcharge and the total paid by card. [2 marks]

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Answer: _____

- 8 A phone costs \$1440 outright, or \$65 per month for 24 months on a plan. How much extra does the plan cost? Give this as a percentage of the outright price, to 1 decimal place. [2 marks]

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Answer: _____

- 9 Ella's card payment was \$507.50, which included a 1.5% surcharge. What was the price before the surcharge? [2 marks]

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Answer: _____

- 10 Noah buys a \$250 jacket from an overseas website. His card charges a 3% foreign transaction fee. Find the fee and the total cost. [2 marks]

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Answer: _____

C**Reasoning** *explain, justify and check*

/ 9 marks

- 1 Explain why some shops add a surcharge when customers pay by credit card. [2 marks]

- 2 Kai says, 'Buy now, pay later is free money – there is no interest!' Describe three risks of using buy now, pay later. [3 marks]

- 3 Describe one important difference between lay-by and buy now, pay later. [2 marks]

- 4 Sam says a 1.5% surcharge on a \$60 purchase is \$9. Explain his mistake and give the correct surcharge. [2 marks]

D**Challenge** *multi-step and problem-solving*

/ 11 marks

- 1 A shop gives a 4% discount for cash and adds a 1.5% surcharge for credit cards. For one item, paying by credit card costs \$33 more than paying cash. What is the marked price of the item? [3 marks]

Answer: _____

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- 2 Lily puts a \$360 guitar on lay-by. She pays a \$10 lay-by fee (not refundable) and a \$60 deposit, then \$30 per week. After 5 weekly payments she cancels. The store keeps a cancellation fee of 10% of the item's price from the money she paid off the guitar. How much is refunded, and how much has cancelling cost her altogether? [3 marks]

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Answer: _____

- 3 Ari buys an \$800 fridge. Option A: BNPL, 4 payments of \$200 with a \$10 fee for each missed payment. Option B: credit card with a 1.2% surcharge, paid in full by the due date. Ari misses 2 BNPL payments. Which option would have been cheaper, and by how much? [3 marks]

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Answer: _____

- 4 An item costs \$200 before GST. GST (10%) is added, and then a 1.5% card surcharge is added to that total. Find the final price. Would the price be different if the surcharge were added first and then GST? Explain. [2 marks]

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Answer: _____

How did I go?

Fluency ____ / 16 Core ____ / 22 Reasoning ____ / 9 Challenge ____ / 11 **Total ____ / 58**

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