

Lesson 4: Discounts, Mark-ups and Best Buys

Year 10 Mathematics Unit 1 — Block A | Worksheet

Name _____

Date _____

Class _____

Multiple Choice

Q1. A sofa originally priced at \$850 is reduced by 20%. What is the sale price?

- A) \$830 B) \$680 C) \$870 D) \$170

Q2. A retailer buys a jacket for \$45 and applies a 60% mark-up. What is the selling price?

- A) \$72 B) \$105 C) \$27 D) \$81

Q3. Which is the better buy: 2 kg of rice for \$8.40, or 5 kg of rice for \$19.50?

- A) 2 kg for \$8.40 B) 5 kg for \$19.50 C) They are equal value D) Cannot determine

Q4. An item with a marked price of \$200 receives successive discounts of 15% and then 10%. What is the final price?

- A) \$150 B) \$153 C) \$170 D) \$180

Q5. A store offers "Buy 2, Get 1 Free" on items priced at \$15 each. What is the effective discount per item?

- A) 25% B) 33.3% C) 50% D) 20%

Short Answer

Q6. A television is marked at \$1,200. During a sale it is discounted by 25%. Calculate the sale price and the amount saved. (2 marks)

Q7. A shop buys protein powder for \$32 per tub and wants to make a 45% profit. What should the selling price be? If GST must be added at 10%, what is the final price to the customer? (3 marks)

Q8. Compare two mobile phone plans. Plan A: \$45/month with 20 GB data. Plan B: \$0.80 per day plus \$2 per GB used. For a month with 15 GB usage, which plan is cheaper and by how much? (3 marks)

Key Formulas

- Write any formulas you need here.