

**WALT** Calculate markups discounts and GST

**Success Criteria** I know....

- How to calculate percentages of an amount.
- Use a multiplier

- 1 A baker puts a 'mark-up' of 35% on the bread sold to store-keepers. If it costs the baker, on average, 90 cents per loaf, what price must the baker charge storekeepers (to the nearest cent)? (Ignore GST.)
- 2 A chicken pack costing \$5.40 needs to be increased in price by 12.5% for the GST. What should it sell for?
- 3 A butcher buys chicken breast fillets for \$5 per kg and adds a 65% mark up for profit. What price per kilogram will the customer pay? (Ignore GST.)
- 4 An item costs \$60 before GST is added on. What is the cost including GST?
- 5 A side of lamb costs \$25. GST is added on to this. What will it now cost?

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**Example 20**

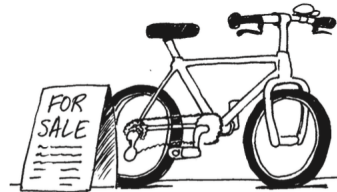
A CD marked at \$28 is discounted by 15%. Calculate the sale price.

$$\begin{aligned}\text{sale price} &= \text{marked price} \times \text{multiplier} \\ &= \$28 \times 0.85 \\ &= \$23.80 \quad (\text{this price still includes GST})\end{aligned}$$



A discount reduces the price of an item!

- 6 A bicycle marked at \$560 is to be discounted by 30%. Calculate the sale price.
- 7 Discount a \$45 item by 12%.
- 8 A wok priced at \$95 is to be sold at a 45% discount. Calculate its selling price.



- 9** If a fresh fish shop sells fish with a 45% mark-up on the price they buy them for, how much did the fish cost if they are sold for \$5.50 per kg? (Ignore GST)
- 10** A litre of milk retails for \$1.47 after being marked up by 40%. What was the cost price? (Ignore GST)
- 11** A six pack of yoghurt costs \$2.40 after being marked up by 10%. What was its cost price? (Ignore GST)

**Example 22**

A local electrical store offered a 15% discount on all items sold at its summer sale. If a television set was sold for \$675, find its marked price.

Since there is a 15% discount,

selling price = 85% of marked price

$$\therefore \$675 = 0.85 \times \text{marked price}$$

$$\therefore \frac{\$675}{0.85} = \text{marked price}$$

So, the marked price is \$794 (to the nearest dollar)

- 12** A CD was discounted by 20% and sold for \$23.60. What was the marked price?
- 13** A pair of bathers sold for \$44 after being discounted by 45%. What was the marked price of the bathers?
- 14** A book was discounted in price by 45% and sold for \$12.50. What was the marked price?

Check your answers

- 1** \$1.22   **2** \$6.08   **3** \$8.25 per kg   **4** \$67.50  
**5** \$28.13   **6** \$392   **7** \$39.60   **8** \$52.25  
**9** \$3.79 per kg   **10** \$1.05   **11** \$2.18  
**12** \$29.50   **13** \$80   **14** \$22.73   **15** 73 cents  
**16** \$29.33   **17** \$20   **18** a \$52   b \$5.78