

BC Numeracy 10 Exam Practice – Percentages (3)

1. Hospital Report

A hospital ward filed a weekly patient update:

- Total patients admitted: 84
- Patients diagnosed with pneumonia: 21

The report was used to track the spread of illness in the ward.

- a) What percent of patients admitted that week were diagnosed with pneumonia?**
 - b) What percent of patients admitted were not diagnosed with pneumonia?**
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2. Website Analytics

A business owner reviewed their website's daily analytics report. The report showed:

- Total visitors: 2,400
- Visitors who completed a purchase: 360

The owner wanted to track what proportion of visitors became customers.

- a) What percent of website visitors made a purchase that day?**
 - b) What percent of website visitors did not make a purchase that day?**
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3. Concert Ticket Invoice

A customer used an online ticket service to purchase seats for a concert. The order summary showed:

- Ticket price: \$150 each
- Additional taxes: 12% sales tax applied at checkout

Before confirming the order, the customer wanted to know the total amount to be charged to their credit card.

- a) What is the amount of tax on one ticket?**
 - b) What is the total cost of one ticket including tax?**
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4. Community Project Funding

The local newspaper reported on the cost of building a new playground. The article stated:

- Total cost: \$60,000
- Government grant paid: 65% of the total cost
- The remainder was covered by the community.

Readers wanted to know how much the community itself had raised for the project.

- a) How much of the project cost was paid by the government grant, in dollars?**
 - b) How much did the community contribute, in both dollars and percent?**
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5. School Fair Attendance

The student council wrote a short article about the success of the school fair for the school newsletter. It included:

- Total student attendance: 720
- Students who purchased food tickets: 468

The council wanted to know what portion of students supported the food booth.

- a) What percent of students purchased food tickets?**
- b) What percent of students did not purchase food tickets?**

6. Raffle Ticket Results

At the annual Fall Festival, community volunteers sold raffle tickets to raise money for a local food bank. In the event's financial summary, the following was reported:

- Total raffle tickets sold: 540
- Number of winning tickets drawn: 72

The organizers wanted to share the odds of winning a prize with festival attendees.

- a) **What percent of tickets sold turned out to be winners?**
 - b) **What percent of tickets sold were non-winners?**
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7. Population Report

The Regional Planning Office published a demographic report comparing census results:

- Population in 2015: 27,500
- Population in 2020: 24,750

The report included the statement: *"The community has experienced a population decline over the past five years."*

- a) **What was the percent decrease in population between 2015 and 2020?**
 - b) **What percent of the 2015 population still remained in 2020?**
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8. Store Receipt

A shopper picked up a pair of running shoes at a sporting goods store. The price tag showed: \$200. A sign near the register read:

"40% OFF all footwear — plus 12% sales tax applied to the discounted price."

The shopper wanted to calculate the final amount before going to the checkout.

- a) **What is the discounted price of the shoes before tax?**
 - b) **What is the total cost including 12% tax?**
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9. Supply Order Record

The supply office for a government department filed a delivery inspection report. It showed:

- Total chairs ordered: 90
- Chairs found damaged on arrival: 12

The report asked the office manager to calculate what proportion of the order had defects.

- a) **What percent of the chairs were damaged?**
 - b) **What percent of the chairs arrived in usable condition?**
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10. Business Profit Report

A quarterly financial update from Pacific Clothing Company included production details for one of their popular products:

- Cost to produce one shirt: \$22
- Wholesale selling price: \$35

The report stated: *"This represents a profit margin based on cost."*

- a) **What is the profit margin as a percentage of the production cost?**
- b) **What is the dollar profit on each shirt sold?**