

## BC Numeracy 10 Exam Practice – Percentages (2)

### 1. Clothing Store Flyer

The *Weekend Outdoor Deals* flyer from Alpine Outfitters was delivered to households across the city. The flyer included this advertisement:

“25% OFF all winter jackets. Original ticket prices apply. Discount taken at checkout.”

When browsing in the store, a shopper notices a jacket with an original price tag of \$280.

- What is the discounted price of the jacket before taxes?**
  - If the sales tax is 12%, what is the final cost of the jacket including tax?**
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### 2. 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.

- What percent of tickets sold turned out to be winners?**
  - What percent of tickets sold were non-winners?**
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### 3. Loan Statement

A student received a copy of their loan account summary in the mail. The summary listed:

- Loan balance: \$14,000
- Annual interest rate: 6%
- “Interest will be added to the principal at the end of each year.”

The student wanted to know how much interest would be added to their loan after the first year of borrowing.

- How much interest is added after one year?**
  - What will the total loan balance be at the end of that year?**
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### 4. Dental Coverage

The North Valley Dental Centre sent a billing statement to a patient for a recent cleaning appointment. The statement included:

- Cost of cleaning: \$110
- Insurance plan pays: 75% of eligible costs
- “Balance owing is payable by the patient at time of service.”

The patient checked their benefits to confirm the amount they would need to pay at the reception desk.

- How much is covered by insurance, in both dollars and percent?**
  - How much does the patient pay out of pocket, in both dollars and percent?**
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### 5. Arena Renovation Report

The City of Lakeside published a notice on its website describing recent renovations at the downtown arena. The notice reported:

- Original seating capacity: 21,000 seats
- Current capacity after renovations: 18,375 seats

City council members wanted to highlight how the renovations affected the number of fans who could attend games.

- What percent of the original seating capacity was lost due to renovations?**
- What percent of the original seating capacity remains after renovations?**

## 6. Project Score Sheet

A Grade 10 student received their results for a major project in Social Studies. The scoring rubric showed:

- Total possible points: 100
- Student's score: 84 points

The teacher entered the grade as a percentage on the student's report card.

a) **What percentage grade did the student earn?**

b) **What percentage of the points were missed?**

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## 7. Factory Production Data

The *Monthly Operations Bulletin* from a parts manufacturer contained the following information:

- April production: 3,600 parts
- May production: 4,320 parts

The plant manager wanted to calculate the percentage change from April to May for their monthly review meeting.

a) **What was the percent increase in production?**

b) **How many more parts were produced in May compared to April?**

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## 8. Vehicle Depreciation

A used-car dealership created a brochure for buyers comparing new and used prices. For the 2021 TrailMaster SUV, the brochure listed:

- Price when new (2021): \$34,000
- Current resale value after 3 years: \$23,800

The dealership included a note saying: "*This vehicle has retained much of its original value.*"

a) **What percent of its original value has the SUV retained after three years?**

b) **What percent of its original value has the SUV lost after three years?**

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## 9. Library Condition Report

The principal presented the annual library report to the school board. One section highlighted new books:

- Total books purchased: 500
- Books still in good condition at year end: 400

Board members wanted to know how well the books had held up through the school year.

a) **What percent of the purchased books remained in good condition?**

b) **What percent of the purchased books were damaged or unusable?**

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## 10. 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?**