

1. Show how to find each amount using mental math.

50% of 66	25% of 32
10% of 15	1% of 170

2. Use mental math to determine the amount. Show your thinking using pictures and numbers.

a) 60% of 50

b) 35% of 240

3. Calculate the total cost (final price).

a) A concert ticket costs \$250 plus GST.

b) Noah buys a bike for \$350 with a 15% discount and pays GST and PST.

c) Mia buys two hoodies for \$98 each and pays GST.

4. Calculate.

a) 37% of 485

b) 68% of 942



5. Determine the original price.

a) A backpack is on sale for \$45 after a 10% discount.

b) Final price of a fridge was \$1200 after a 30% discount.

6. What is the total amount paid for a restaurant bill of \$175, if a tip of 20% was provided.

7. If GST increased to 7%, how would that affect the total price of a \$100 item?
8. Which is better, 20% off or \$20 off on a \$150 item. Explain and justify your thinking.
9. Show two ways to estimate the total cost of an item with tax and discount.
10. Name an item that you have on your wish list. Find the current price of it and calculate what the final cost after taxes would be if it were on sale for 20% off.



1.

Marc has a budget of \$850 to refurbish and decorate a bedroom. He has to purchase a bed, bedding, a shelf and some storage organizers for the shelf. The items he selected are shown below. Will he have enough money to pay for these items, inclusive of tax? Show your thinking, and justify your answer.



bed
\$450



shelf
\$300



storage organizers
\$125.75



2. What is the total cost of four tires that sell for \$275 each, plus 5% GST and a fixed fee of \$6.50 per tire for an Eco Fee? You do not have to pay for PST because you are planning on mounting these tires on your car, yourself.

3. The selling price of a gaming console is about 35% more than it costs, at a store. It is currently sold at a discount of 15% off the selling price. How much does the store still gain?



4. In 2021, Richmond BC's population was 209, 937 and Kelowna BC's population was 144, 576. Over the next two years:

- Richmond's population grew by 6% in the first year, then 4% in the second year.
- Kelowna's population grew by a total of 10% across the same two years.

Did the population of each city increase by the same amount? Explain using math.

What is the new population of each city after two years (round to the nearest whole number)?



5. Paco saved \$1250 over the year from a part time job. He decided to take \$850 of it to the bank to put in a savings account where it will earn 2% interest every month. How much will be in his account after three months if he doesn't withdraw any money?

6. You bought shoes at 40% off and a jacket at 20% off and paid the same amount for each. How would you figure out the original prices?