

## Practice Worksheet

1. If the ratio of the Canadian dollar to the US dollar is \$1.04:\$1.00, how much Canadian money is equivalent to US\$250?

2. A ladder is leaning against a house.  
The ratio of **the size of the ladder** to **the distance from the house** is **5:4**.

(a) Determine the distance from the house if the ladder is 10 m long?

(b) How long is the ladder if the distance from the house is 11m?

3. **Traditional televisions** have a ratio of width to height of **4:3**.  
**High definition televisions (HDTV)** have a ratio of width to height of **16:9**.



a) Darren wants to buy a new television. He finds a traditional television at the store and measures the width of it to make sure it fits in his home. He measures the width to be 24 inches but he forgets to measure the height. What is the height of the television?

b) Sasha is buying a new HDTV. She finds one and measures the width to be about 36 inches. What is the height of the television?

4. Express each of the following as a unit rate. Round answers to two decimal places, if necessary, and state the units for each answer.

(a) 40 mm of rain in 4 h \_\_\_\_\_

(b) \$6.49 for 24 cans of pop \_\_\_\_\_

(c) \$58.00 for 8 h of work \_\_\_\_\_

5. Determine the better buy for each of these school supplies. Show your calculations.

(a) A box of 12 pens for \$2.59 or a box of 15 pens for \$3.35.

(b) 250 sheets of graph paper for \$2.39 or 120 sheets for \$1.15.

6. You want to purchase a new shirt that costs \$22.50.

a) How much tax will you have to pay if HST is 13%?

b) What is the total cost of your shirt?

7. Carl bought a football jersey with a regular price of \$129.49. The jersey was on sale for 30% off, and the taxes were 14%. Determine each amount.

(a) the discount

(b) the sale price

(c) the taxes

(d) the total amount Carl paid

A skateboard is priced at \$92.00 and is reduced by 20%.

(a) What is the amount of the discount on the skateboard?

(b) Calculate the new price of the skateboard.

In 2004, the cost to join a gym was \$169.00.

In 2005, the cost was 7% more.

How much did it cost to join the gym in 2005?