

## Review—Unit Price and Currency

1. You can travel an average of 15 kilometres on a bicycle in 1 hour, how long will it take you to travel 25 kilometres?
  2. If there are 9 tiles on a 16 foot board, how many tiles would be on a 192 foot board?
  3. At the market, you can purchase fresh carrots at \$2.99 for 2.5 kg and \$4.29 for 4 kg.
    - a) What is the unit cost for each?
    - b) Which is the better price? Justify your answer.
    - c) What other factors other than unit price might a buyer consider?
  4. Find the unit cost of each of the following items. Show your calculations.
    - a) a package of 12 suckers for \$3.07
    - b) 30 m of wrapping paper for \$1.97
  5. Winn Doe buys a computer monitor for \$498.98 and software for \$72.98. What is the total cost of the purchase including GST and PST?
  6. A computer software retailer purchases a computer game for \$35.99. The retailer charges a markup of 40% on the program. What will the retailer charge the customers for the program?
  7. A computer was reduced from \$450 to \$375. Calculate the percent rate of saving, if you purchase the computer at the reduced price.
  8. John and Max want to buy 2 hoodies that are regularly priced at \$30 each. They want to know which store to buy the hoodies at.
    - a) Store A offers buy 1 and get the 2<sup>nd</sup> hoodie for half price. Calculate the total price of the hoodies *without* taxes.
    - b) Store B is offering 33% off all hoodies. Calculate the price of the hoodies *without* taxes.
    - c) Where should the boys buy the hoodies? Justify your answer.
  9. You are planning a trip to Switzerland and wish to convert \$800.00 into Euros.
    - a) How many Euros do you get for \$800.00 CAD?
    - b) If at the last minute your trip was cancelled and you wanted to change your money back into Canadian, how much would you receive?
    - c) Explain why you receive a lower amount of Canadian dollars than you originally converted.
  11. Anne-marie is paid time and a half for overtime. A regular work week is 40 hours. If Anne-marie works 45 hours in one week and she is paid \$11.50 an hour, what is her gross pay?
  12. Kandy is paid a salary of \$350 a week and 11.5% commission on everything she sells. If she sells \$1100 worth on merchandise in one week, what is her gross pay?
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# Review Answers

$$\textcircled{1} \begin{array}{l} 15 \text{ km} \swarrow \nearrow 25 \text{ km} \\ 1 \text{ hr} \quad \quad \quad h? \end{array}$$

$$25 \times 1 = 15h$$

$$\div 25 = 15h \div 25$$

$$1.67 = h$$

$$\boxed{1.67 \text{ hours}}$$

$$\textcircled{2} \frac{9}{16} = \frac{T}{192}$$

$$16T = 9 \times 192$$

$$16 \overset{\div 16}{T} = 1728 \div 16$$

$$\boxed{T = 108 \text{ files}}$$

$$\textcircled{3} \text{ a) } \frac{\$2.99}{2.5 \text{ kg}} = \boxed{\$1.196 \text{ per kg}}$$

$$\frac{\$4.29}{4 \text{ kg}} = \boxed{\$1.0725 \text{ per kg}}$$

b) Second is better b/c lower price per kg

c) Quality, freshness, size

$$\textcircled{4} \text{ a) } \frac{\$3.07}{12} = \boxed{\$0.26 \text{ per sucker}}$$

$$\text{ b) } \frac{\$1.97}{30 \text{ m}} = \boxed{\$0.066 \text{ per metre}}$$

$$\textcircled{5} \text{ Price} = 498.98 + 72.98 = \$571.96$$

$$\text{ GST } 0.05 \times 571.96 = \$28.60$$

$$\text{ PST } 0.07 \times 571.96 = \$40.04$$

$$\text{ Total} = 571.96 + 28.60 + 40.04$$

$$= \boxed{\$640.60}$$

$$\textcircled{6} 0.40 \times 35.99 = \$14.40$$

$$\text{ Price} = 35.99 + 14.40 = \boxed{\$50.39}$$

$$\textcircled{7} 450 - 375 = \$75$$

$$\frac{\text{Saving}}{\text{original price}} \times 100$$

$$\frac{\$75}{450} \times 100 = \boxed{17\%}$$

$$\textcircled{8} \text{ a) } \$30 \text{ first}$$

$$0.5 \times \$30 = \$15 \text{ second}$$

$$\text{ Total} = 30 + 15 = \boxed{\$45}$$

$$\text{ b) } 0.33 \times 30 = 9.90 \text{ off}$$

$$30 - 9.90 = \$20.10 \text{ each}$$

$$\$20.10 \times 2 = \boxed{\$40.20}$$

for 2 hoodies

c) Buy at store B because cheaper!

$$\textcircled{9} \text{ a) } \$800 \div 1.644814 = \boxed{486.38 \text{ US}}$$

$$\text{ b) } 486.38 \times 1.580814 = \boxed{\$768.88}$$

Canadian

c) Because bank has two rates "buying" and "selling" they charge you lots and don't buy it back for as much.

$$\textcircled{11} \text{ Reg: } \$11.50$$

$$\text{ O.T: } 11.50 \times 1.5 = \$17.25$$

$$40 \text{ h} \times \$11.50 = \$460$$

$$5 \text{ h} \times \$17.25 = \$86.25$$

$$\text{ Total } 460 + 86.25 = \boxed{\$546.25}$$

$$\textcircled{12} 0.115 \times \$1100 = \$126.50$$

$$126.50 + 350 = \boxed{\$476.50}$$