Ch1 Practice Test

Multiple Choice

Identify the choice that best completes the statement or answers the question.

- 1. A 2-stroke dirt bike requires 15 L of gas to be mixed with 4 L of oil. How much oil do you need to fill up your dirt bike if you use 24 L of gas?
 - 90 L of oil
 - 7.68 L of oil

- 2.5 L of oil (d.) 6.4 L of oil

- If 5 cm on a map represents 5 km of actual ground, how many centimetres would 25 km of actual ground be
 - 25 cm a.
 - b. 20 cm

- 1 cm
- (d.) 25 cm
- $\frac{6}{5} = \frac{\pi}{25}$ $\chi = 25$

- 3. If 3 kg of tomatoes costs \$10.20, how much will you pay for 8 kg?
 - \$27.20
 - b. \$32.64

- \$21.76
- d. \$27.70

- 4. A video game costs \$48.99. What is the total price when you add 12% HST? 48.99 × 1.12 = 54.87
 - \$54.87

- \$52.42
- \$5.88

5. Iona buys a new home gym for \$2075.00. Calculate the PST and GST if she lives in Saskatchewan.

Tax Rates				
	PST	GST		
Alberta	0%	5%		
British Columbia	HST 12%			
Manitoba	7%	5%		
Northwest Territories	0%	5%		
Nunavut	0%	5%		
Saskatchewan	(5%)	(5%)		
Yukon	0%	5%		

2075 × 0.05 = \$103.75

\$103.75 GST, \$103.75 PST

- \$103.75 GST, \$145.25 PST
- \$145.25 GST, \$103.75 PST
- \$103.75 GST, \$0.00 PST

- 6. Glenda makes and sells jewellery. If it costs her \$16.00 to make a necklace and she marks up the price by 160%, for how much will she sell the necklace?
 - \$49.92 a.
 - b. \$33.28

- \$41.60
- \$ 16.00 × 1.60 = 25.60

7. The retail price of a snowblower is \$617.40. The wholesale price was \$420.00. What is the percent markup?

8. The regular price of a sofa is \$719.99, but it is on sale for 40% off. What will the customer pay if the sofa is sold in Yellowknife, NWT, where tax is 5% GST? # 719.99 x 0.40 = # 288.00

9. Towels are on sale at a department store. The advertisement says, "Buy one, get one $\frac{1}{2}$ off!" The regular price of a towel is \$21.99. If you buy 4 towels, how much will it cost you? Don't include tax.

10. 1 Australian dollar is worth \$1.15 CAD. If you have 725 Australian dollars, how many Canadian dollars can you exchange them for?

\$833.75

11. If Qi purchased 4305 Chinese yuan for \$700.00 CAD, what was the bank's selling rate?

c.
$$0.162602$$
 Yuan $\frac{4305}{700} = \frac{1}{300}$

0.1300816 b.

n:0.162602

Short Answer

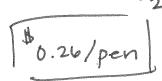
"The bank is selling Qi "I" yuan "

1. The ratio of Grant's weight to Gregory's weight is 6:7. If Gregory weighs 115 kg, how much does Grant

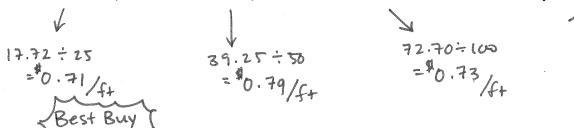
Grant
$$\frac{6}{7} = \frac{20}{115 \text{ kg}}$$
 $\boxed{2 = 98.6 \text{ kg}}$

2. An office supply store sells a package of 16 pens for \$4.19. Write this as a unit rate.

pens
$$\frac{16}{44.19} = \frac{1}{x}$$
 $n = 0.26$ $\sqrt{\frac{4}{0.26/pen}}$



3. Raul is buying chicken wire that he will use to reinforce concrete in a retaining wall. He can buy a 25-ft roll for \$17.72, a 50-ft roll for \$39.25, or a 100-ft roll for \$72.70. Which is the best buy?



4. The cost of purchasing bathtubs at a wholesaler depends on the number you buy.

If you buy fewer than 5 bathtubs, they cost the regular price of \$399.99.

If you buy 6 to 10 bathtubs, you get a discount of 7%.

If you buy 11 to 20 bathtubs, you get a discount of 16%.

Calculate how much it would cost to buy 16 bathtubs in Alberta, where 5% GST is applied.

Problem

1. Lawrence is a nurse. He needs to measure and administer the correct dose of medicine to his patients. 125 mg of medicine must be dissolved into 300 mL of water. If the patient requires a dose of 500 mg of medicine, how much water is needed? Round to the nearest millilitre.

$$\frac{300}{425} = \frac{\pi}{800}$$
 $\pi = 564.7 \text{ mL H20}$ 3

H20 + pander

- 2. A store sells 25 board games for \$53.95 each.
 - a) How much more money would the store make if it sold the same number of board games for \$58.95 each?
 - b) What would be the percent increase in price?
 - c) Why might the store not want to increase the price of its board games? om IT

a.
$$58.95$$
 $-\frac{53.95}{5.00}$
 $\frac{5.00}{53.95}$: 0.093= 9.3%. C. rather cell more games
 $\frac{5.00}{53.95}$: 0.1093= 9.3%. C. rather cell more games

Question like this on tost.

Choroma					
Item	Wholesale	Retail Price	Markup	Cost 12%	
enter de apparent de la contraction de la contra	\$ 9.85	\$ 15.96	62%	17,88	
2.	20.12	37.02	84%	41.46	
3.	61:15	81.94	34%	91,72	
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