FULL NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

UNIT ONE EXAM: Unit Pricing and Earning an Income

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Read each question carefully.

if you are having difficulty understanding what the question is asking please ask me for clarification!!

GOOD LUCK!!!

1. Which ratio is equivalent to 14:20?
   1. 4:10
   2. 7:10
   3. 15:2
   4. 24:40
2. A three-term ratio comparing the size of Jupiter to Earth to Saturn is 33:3:30. What is the ratio expressed in its simplest form?
   1. 10:1:11
   2. 11:1:10
   3. 11:3:10
   4. 13:1:3
3. Sam typed 2325 words in 25 minutes. How many words can he type in 1 minute?
   1. 0.01
   2. 23
   3. 30
   4. 93

**NR #1**

If a dozen eggs cost $ 1.44, how much would 15 eggs cost at the same rate?

1. The price of a shirt is $18.99. If GST is 7%, how much will the shirt cost you?
   1. $1.33
   2. $17.75
   3. $20.32
   4. $271.29
2. Matt is graduating from high school this year. As a reward for his hard work, his parents have offered to pay for a trip to the United States and Mexico. How many US dollars can he buy with $1000 Canadian if 1 Canadian dollar is worth $0.91/ US dollar?
   1. $ 650.00
   2. $ 910.00
   3. $ 1000.46
   4. $ 1098.90
3. Valerie earns $ 189.00 per week. The following deductions are made from her earnings per month:

Unemployment Insurance = $ 4.44

Canada Pension Plan = $ 6.00

Retirement Pension = $ 26.00

Medical Insurance = $ 5.00

Car Pool = $ 3.00

Income Tax = $ 44.30

What is Valerie’s ***net weekly pay***?

* 1. $ 88.74
  2. $ 100.26
  3. $ 175.94
  4. $ 189.00

1. Michelle works at the Rusty Pelican Restaurant. She earns $7.00/hr plus 10% tips. On Saturday she worked 12 hours and made $ 500 in tips. How much did Michelle earn that day?
   1. $ 84.00
   2. $ 128.00
   3. $ 134.00
   4. $ 584.00

**NR #2**

A Canadian travelling from Canada to Australia has this information on exchange rates: 1 Canadian Dollar = 1.10739 Australian Dollars.

She has 400 Canadian Dollars and wants to exchange them to Australian Dollars. How many Australian Dollars should she receive?

1. Mary-Jo is paid on straight commission of 13% of her total sales. If she sold $2500 worth of goods last week what is her pay for this work?
   1. $325.00
   2. $2175.00
   3. $2513.00
   4. $2825.00
2. What is the cost of 100 mL of toothpaste that sells for $1.29 for 125 mL?
   1. $1.023
   2. $1.032
   3. $1.034
   4. $1.043

**NR #3**

Crystal works full time at a gas station. She is paid $11.50/h plus time-and-a-half for overtime, which is any time over 40 hours a week. Calculate her gross earnings for a week in which she worked 46 hours.

**NR #4**

Determine the missing term in the following proportion



1. A box contains 3 green, 4 red, 8 pink, and 12 blue marbles.

Which of the following ratios would be the ratio of red: blue in simplest form?

WRITTEN RESPONSE: **Show all your work** in your solutions to each of the following questions.

1. Martha has the choice of working at any one of the following jobs.

Job A: pays $10.25/h plus double time for any hours worked over 40 in

one week.

Job B: pays $6.50/h plus 80% of any tips earned

Job C: pays $12.10/h plus $1.23 for every hat that she assembles

Job D: pays $200 per week plus 3% commission on total sales

1. If she works 44 hours in one week, how much does she get paid for Job A?
2. If she works 44 hours one week and collects $1200 in tips, how much does she get paid for Job B?
3. If she works 44 hours one week and assembles 250 hats, how much does she get paid for Job C?
4. If she works 44 hours and sells $25 000 worth of goods, how much does she get paid for Job D?
5. Danica gets paid $1020 biweekly. The following deductions are taken off of her pay cheque every two weeks:

Federal Income Tax rate: 16%

Provincial Income Tax rate: 10 %

CPP rate: 4.7%

EI rate: 2.2%

1. How much is deducted for federal income tax?
2. How much is deducted for provincial income tax?
3. How much is deducted for CPP?
4. How much is deducted for EI?
5. What is Danica’s net income?
6. Use unit prices to determine which is the better buy.
   1. Pickles: 250mL jar for $3.74 OR 300mL jar for $3.50
   2. Dog food: 900g for $2.69 OR 12.5kg for $37.15
7. Determine the cost of each item listed
   1. 2 bunches of green onions at 3 for $1.49
   2. 1.4 kg of ham at $6.90/kg
8. Sarah is going to Paris. Her flight and accommodations will be $1350 Canadian. She wants to have ∈828 (Euros) on her trip. The current exchange rate is ∈1 = $1.54CAN. What is the cost of the trip (in Canadian dollars)?