**ALTERNATIVE PROGRAMS**

**MATHEMATICS**

**GRADE 9 LDCC**

**NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**TEACHER: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Total time: 2 hours Total pages: 9 Total marks: 57 Marks**

**INSTRUCTIONS:**

* Please check to ensure that your exam has all of the necessary pages.
* You may use a non-programmable calculator and any drawing instruments.
* Read each question carefully and be sure to answer all parts. Full solutions in the space provided are required for full marks

**Part A: Multiple Choice (8 Marks)**

1. The perimeter of a rectangle 22 m by 12 m is:

22 m

* 1. 68 m
  2. 34 m

12 m

* 1. 10 m2
  2. 264 m

1. Mr. Granola went out for dinner and had a meal. The total bill was $42.00. What is the tax (HST= 13%) for this bill?
   1. $47.46
   2. $0.75
   3. $5.46
   4. $4.20
2. Students from your school were asked, “Do you watch more than 4 hours of television per day?” Results to this survey were that 72% said no, what percent said yes?
   1. 720
   2. 100%
   3. 5%
   4. 28%
3. What is the missing term in the equivalent ratio: =
   1. 12.5
   2. 10
   3. 5
   4. 25
4. How much is of $10.00?
   1. $3.00
   2. $5.00
   3. $25.00
   4. $2.50
5. What is 2.48 rounded to the nearest tenth?
   1. 2.00
   2. 3.50
   3. 3.00
   4. 2.50
6. A budget is:
   1. the amount of money spent on something(s)
   2. the comparisons made when shopping
   3. the amount of money available for spending
   4. the time it takes to spend money
7. There are 1000 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in one meter.
   1. centimeters
   2. millimeters
   3. feet
   4. inches

**PART B: Write the final answer to each question on the line provided.**

**(5 marks)**

1. Write 4% as a decimal \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Round 21,321.14 to the nearest hundred \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Write  as a percent \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Express 64% as a fraction. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. What is an equivalent fraction of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**PART C: Answer each question in the lines below: (3 Marks)**

1. Express the following as a unit price:
   1. Janet bought 24 pens for $6.00. What is the cost of one pen?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* 1. A dozen doughnuts cost $6.50. What is the cost of one doughnut?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* 1. Vik earns $280 for every 8 hours. How much does Vik earn in one hour?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**PART D: Answer all questions in the space(s) provided.**

1. You are given $100.00 to spend at a department store?
   1. Using estimation, how many items do you think you can buy with $100, including 13% tax for each item? Circle the items.

(1 mark)

* Radio: $20.99 (**extra 25% off**)
* T-Shirt: $9.99
* Video game: $29.95 (**extra 10% off**)
* Calculator: $11.99
* Shoes: $25.00 (**extra 30% off**)
* Package of gel pens: $3.44 (**extra 5% off**)
* Hair gel: $6.45
  1. Record each item you circled in the following table, and complete the table [10 Marks].

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Item** | **Original Price** | **% of Discount** | **Amount of Discount** | **Sale Price** | **Tax** | **Total Price** |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Total Cost: | | | | | |  |

* 1. What is the total cost of the purchase? [1 Mark]
  2. If you give $100.00 bill to the cashier, how much change will you get? [1 Mark]

1. A field hockey field is 300 ft long and 180 ft wide.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
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|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | 180 ft |
|  |  |  |  |  |  |  |  |
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300ft

* 1. For warm up, the team jogs around the field once. How many feet do they jog? (2 Marks)
  2. Two team members arrive late for practice. They have to run 3 laps in total. What distance do they have to run? (2 Marks)

1. Sam wants to make a swimming pool in his backyard. The layout of the pool is given below:

500 cm

4m

7m

2000 mm

y

x

* + - * 1. Convert all measurements to metres. (2 Marks)
        2. Re-label the composite shape using all metres. (1 Mark)
        3. Find the length of x and y in metres. (2 Marks)
        4. Draw a line to make two rectangles. (1 Mark)
        5. Find the total area of the pool. (4 Marks)

1. Julia wants to bake a cake. She draws the shape of this cake?
2. Calculate the area of the cake? [3 Marks]

30 cm

1. If the cake is cut into 8 equal pieces. How many slices did a person eat if they ate of the cake? (2 Marks)
2. Convert to the specified unit. (5 marks)
3. 25 m= \_\_\_\_\_\_\_\_\_\_ mm
4. 120 m=\_\_\_\_\_\_\_\_\_\_ km
5. 18 yd= \_\_\_\_\_\_\_\_\_\_ ft
6. 48 in= \_\_\_\_\_\_\_\_\_\_ ft
7. 5’4” = \_\_\_\_\_\_\_\_\_\_ in
8. Yan loves comparison shopping. The following items are on her grocery list. Circle which items Yan should choose? (4 marks)

|  |  |  |
| --- | --- | --- |
| Item | Price 1 | Price 2 |
| a) bagels | 6 bagels for $3.50 | 4 bagels for $2.75 |
| b) bags of chips | 1 bag for $0.89 | 20 bags for $18.50 |
| c) chocolate bars | 2 for $1.40 | 8 for $4.80 |
| d) avocados | 1 avocado for $0.85 | 5 avocados for $4.09 |