

Central Peel Secondary School
Department of Mathematics
Final Examination Outline

Pages: 7 (Academic), 8 (AP)

Part A	Part B	Part C	Part D	Total
/9	/9	/75	/21	/114

Time: 1.5 hours

Time Management Plan

Page	Type of Question	Number of Marks	Suggested Time
1	Modified True or False	9	5 minutes
2	Multiple Choice	9	5minutes
3	Written Responses	31	20 minutes
4	Written Responses	14	10 minutes
5	Written Responses	24	15 minutes
6	Written Responses including Explanations	15	15 minutes
7	Explanations	12	10 minutes

Calculating your Final Mark

Convert your final mark update, which consists of your term mark as well as your EQAO mark, into a mark out of 80.

Convert your final exam mark to a mark out of 20.

Term and EQAO + Final Exam

80 + 20

Your Ideal Final Mark

Convert your “Term and EQAO” mark to a mark out of 80. Then convert what you *hope* your exam mark will turn out to be to a mark out of 20. Fill in all the boxes to obtain an estimate of your final mark.

$$\boxed{} + \boxed{} = \boxed{}$$

$$\underline{\quad\quad\quad} \quad \underline{\quad\quad\quad} \quad \underline{\quad\quad\quad}$$

$$80 + 20 \quad \quad \quad 100$$

Some Tricky Problems you must Know how to Solve

Write complete solutions to each of these problems.

1. Snoop Dog and Eminem each owns a collection of rare coins. Snoop Dog collects rare American silver quarters and Eminem collects even rarer American silver fifty-cent (not the rapper) coins. Altogether, there are 237 coins and the total **face value** of the coin collections is \$89.25.
 - (a) What is meant by the “face value” of the coins? If these coins were sold, would the price of each coin be the same as the face value? Discuss.
 - (b) Use the following table to write an equation. Then solve the equation and state how many quarters and how many fifty-cent pieces there are in the collections.

<i>Quantity</i>	<i>Representation of Number of Coins</i>	<i>Representation of the <u>Face Value</u> (in \$) of Number of Coins</i>
Number of Rare Quarters in Snoop Dog’s Collection	q	$0.25q$
Number of Rare Fifty-Cent Pieces in Eminem’s Collection	$237 - q$	$0.50(237 - q)$
Total	237	$0.25q + 0.50(237 - q)$

- (c) Since Eminem owns fifty-cent pieces, does this mean that he “owns” Fifty-Cent?
2. Gurleen ordered a pizza with an area of 1000 cm^2 . Sam, being much hungrier, ordered a pizza with a radius 1.75 times greater than Gurleen’s pizza. What is the area of Sam’s pizza?

Hint: There is a way to solve this problem without calculating the radius of Sam’s pizza.

Answers

1. (a) The face value of a coin is the value that is printed on it. Rare coins can sell for much more than the face value. However, the purchasing power of the coin is only its face value.
 - (b) Snoop Dog has 117 rare quarters and Eminem has 120 rare 50-cent pieces
 - (c) Many answers are possible to this very silly question.
2. The area of Sam’s pizza is 3062.5 cm^2 .

Nothing is more Important than Understanding MEANING!

