Education Quality and Accountability Office



Grade 9 Assessment of Mathematics

Created by teachers at N.H.S.

Who

All students taking Grade 9 Academic and Grade 9 Applied Math this semester



When

Friday Jan 18th Booklet 1
Monday Jan 21st Booklet 2
Period 1 in the cafeteria unless otherwise arranged as per regular classroom assessment practice.



Where and What

Assemble in cafeteria and sit at your designated seat (arranged alpha order by class). There will be a sticker with your name on the package and on the desk.

Do not open the packages until told to do so. Instructions will be read to you. The teacher supervisors will not be able to speak to you after the instructions are over.

Timing

- You will have 60 minutes to:
 - Read questions in Question Booklet
 - Write answers in Answer Booklet
- If you need a little more time, you may have it. We will provide a late slip to your period 2 teacher if necessary.
- At the end of second day there will be a questionnaire

What to Bring

You need

Pencil and Eraser

Ruler

Scientific Calculator



Manipulatives and Graphing Calculators

- You are permitted free access to any manipulatives such as
 - Cube-a-links
 - Geometric solids
 - Algebra tiles
 - Pattern tiles

You may also use a graphing calculator! Be sure to practice first – your teacher can't talk to you during the test!

No Communication Devices!

No cell phones, audio- or video-recording devices, digital music players or any e-mail or text-messaging devices will be permitted in the test room, even if you finish the test early.

Calculators CANNOT be shared



Be on time!

If you are late, report to the office. Mrs. Viscomi will determine where you will write the test.

You may NOT leave early; use the time to check your work.

The Test

There are 4 booklets – one Question Booklet and one Answer Booklet per day. You will not have access to Day 1 booklets on Day 2.

A formula sheet is provided.

EQAO Provides

Each student will be given a formula sheet similar to this
It is yours and you may write on it

Geometric Figure	Surface Area	Volume
Cylinder	$A_{ m base} = \pi r^2$ $A_{ m lateral surface} = 2\pi rh$	$V = (A_{\text{base}})(\text{height})$
h	$A_{\text{total}} = A_2 \text{ bases} + A_{\text{lateral surface}}$ = $2\pi r^2 + 2\pi rh$	$V = \pi r^2 h$
Sphere	$A = 4\pi r^2$	$V = \frac{4}{3} \pi r^3$ or $V = \frac{4\pi r^3}{3}$
Cone h s	$A_{\text{lateral surface}} = \pi rs$ $A_{\text{base}} = \pi r^2$	$V = \frac{(A_{\text{base}})(\text{height})}{3}$
$ \downarrow_{r} $	$A_{\text{total}} = A_{\text{lateral surface}} + A_{\text{base}}$ $= \pi rs + \pi r^2$	$V = \frac{1}{3} \pi r^2 h \text{or} V = \frac{\pi r^2 h}{3}$

Formula Sheet

Grade 9 Applied

Geometric Figure	Perimeter	Area
Rectangle	P = l + l + w + w or P = 2(l + w)	A = lw
Parallelogram $ \begin{array}{c} $	P = b + b + c + c or P = 2(b + c)	A = bh
Triangle	P = a + b + c	$A = \frac{bh}{2}$ or $A = \frac{1}{2}bh$

EQAO does NOT provide

- Some formulas will NOT be given to you
 - Pythagorean Theorem $a^2 + b^2 = c^2$

Key Word Posters

These key words will be posted on the cafeteria walls and are already in your math classroom KNOW THEM!

You are allowed to refer to them during the test

Key Words for EQAO

Compare: Tell what is the same and what is different.

Describe: Use words to create a mental picture for the reader.

Determine: Use mathematics to find a solution to the problem.

List: Use point form.

Explain: Use words and symbols to make your solution clear.

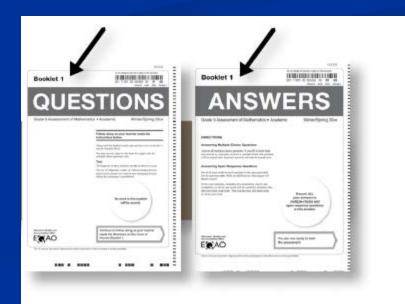
Justify: Give reasons and evidence to show your answer is correct.

Show your work: Record all calculations and all the steps you went through to get your answer. You may use words, numbers, graphs, diagrams, symbols and/or charts.

Here are some *tips* for using the new booklet layout:

Make sure you are using the correct Question and Answer booklets for each session of the test (e.g., Question Booklet 1 and Answer Booklet 1 on the first day of the test).

The top left corner Booklet Numbers need to match!



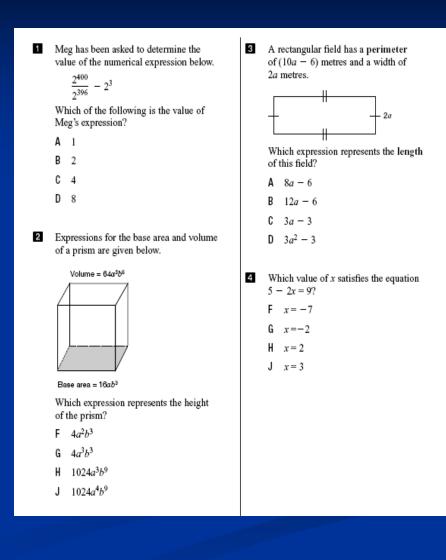
Types of Questions

The Question Booklet contains the multiple choice questions. Answers to the multiple choice questions MUST be recorded in the Answer Booklet.

Open response questions are in the Answer Booklet and are to be answered in the space provided.

Multiple Choice Questions

- Be sure to provide an answer for all questions in the answer booklet
- No penalty for incorrect guesses so DO NOT LEAVE BLANKS!!
- Eliminate answers that you know are wrong
- Read the question carefully. Take your time, often the answer will take more than one step to figure out.

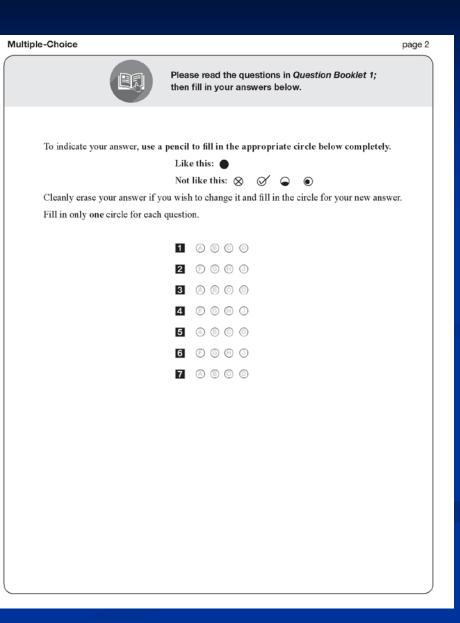


Multiple Choice Questions

 You will be given a space to record your multiple choice questions in the answer booklet

- Bubble in your answers clearly
- Erase mistakes well

 ANYTHING written in the Question Booklet WILL NOT BE MARKED!!

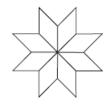


Open Response Questions

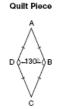
22 Geometric Quilts

Paul's grandmother wants to use quilt pieces to make an eight-pointed star like the one shown.

Eight-Pointed Star



Her quilt pieces are in the shape of a rhombus with two angles of 130°.



Is it possible to make an eight-pointed star using copies of her quilt piece? Justify your answer. There are typically 3 or 4 open response questions in each booklet

 Answer questions directly in the Answer Booklet

Do not leave any questions blank!

 Write everything that you feel is relevant

These questions will take some time and thinking

Mark is based on levels

Marking Scheme

Open response questions are based on levels
There are typically four codes given
10, 20, 30 or 40

Grade 9 Assessment of Mathematics, Winter 2009

5 CD Sell-Off

Juan belongs to a CD club that sells CDs for \$11.44 each before tax. His first shipment of CDs costs \$90.49 including 13% tax.

How many CDs are in his first shipment?

Show your work

Open-Response

Level 40

5 CD Sell-Off

Juan belongs to a CD club that sells CDs for \$11.44 each before tax. His first shipment of CDs costs \$90.49 including 13% tax.

How many CDs are in his first shipment?

Show your work

Price for
$$|CD = |1,44|$$

 $fax for |CD = |1,44 \times 0.13$
 $= $1,49$
 $fotal for |CD = |1,44 + 1,49$
 $= 12,93$
 $$fcos in first shipment = 90.49 = 12,93$
 $= 7$
 $Tn his first shipment there are 7 CD's.$

Who Marks EQAO?

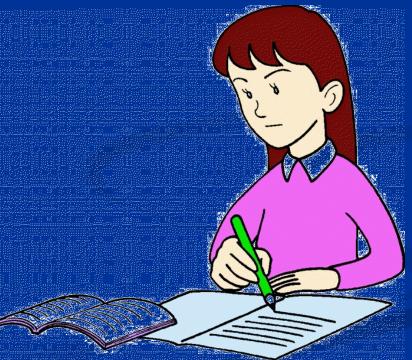
Any or all of the questions will be marked by your classroom teacher (before they are returned to EQAO) to be included as 5% of your overall mark.

 All answers are marked by teachers at EQAO. These results will be sent to you when they are released.

Preparation

Your math exam is on the same knowledge and skills as EQAO

Studying for EQAO will pay off on your math exam!



Preparing for the Test

Classroom Preparation

 Teachers have been giving you questions to help you prepare in class and at home

Extra Help

Math Extra Help Room is open Tuesday, Wednesday and Thursday after school in room 304

Resources

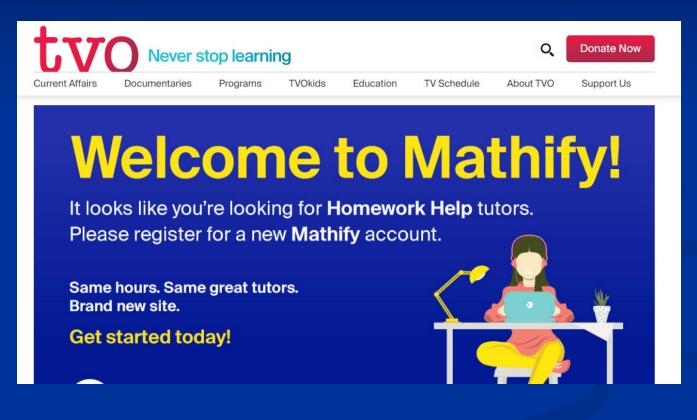
 Visit the EQAO webpage for additional practice and information

■ <u>www.eqao.com</u> → Grade 9 Math → Examples of the Assessment and Scoring Materials → Student Assessment Booklets and Scoring Guides

www.eqao.com

English Français Contact Us	Site Map	A A A
Education Quality and Accountability Office E AO About E	EQAO The Assessments Research Our Data in Action	Q De Login
Home \ The Assessments \ G Guides	rade 9 Math \ Student Assessment Booklets and Scoring	🛨 f 💟 in
EQAO Online	Student Assessment Booklets and Scoring Guide	5
Administration Dates		
Results	Grade 9 Assessment and Scoring Materials, 2015-2016	More Resources Infographic – Primary Division, Junior Division and Grade 9 Provincial
Grade 3, Primary Division	EQAO releases examples of actual questions from its previous assessmen booklets to help students, parents and educators get familiar with the for nat of	Assessments, 2016 Results
Grade 6, Junior Division	the assessment and the type of questions asked. We provide scoring guides and sample student responses to show how the assessments are scored and what student responses at each score code look like. The last five years of released	2015–2016
Grade 9 Math	assessment materials are available.	2014–2015
Educators	EQAO releases approximately half of its test questions (called "items") each year. This process allows EQAO to build up a bank of items that can be used in future	2013-2014
Parents	years.	2012-2013

Free Online Math Tutoring 7 -10



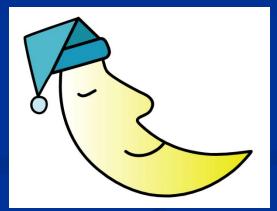
https://www.tvo.org/mathify-reg

Come Rested and Refreshed

Be sure to get a good night's sleep

Eat a healthy breakfast









Good Luck!