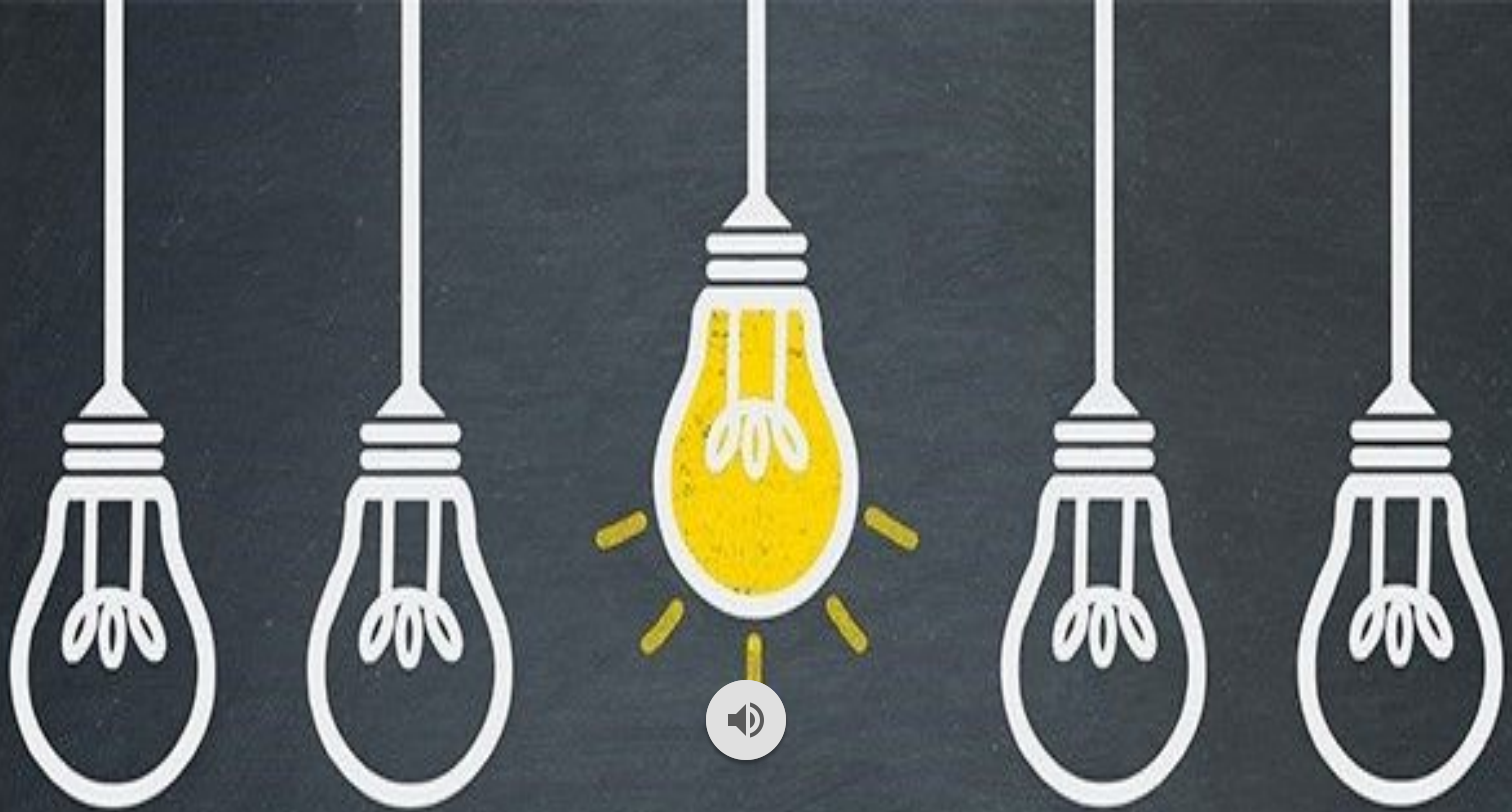


Lessons Learned: Online Mathematics Education Today and Going Forward

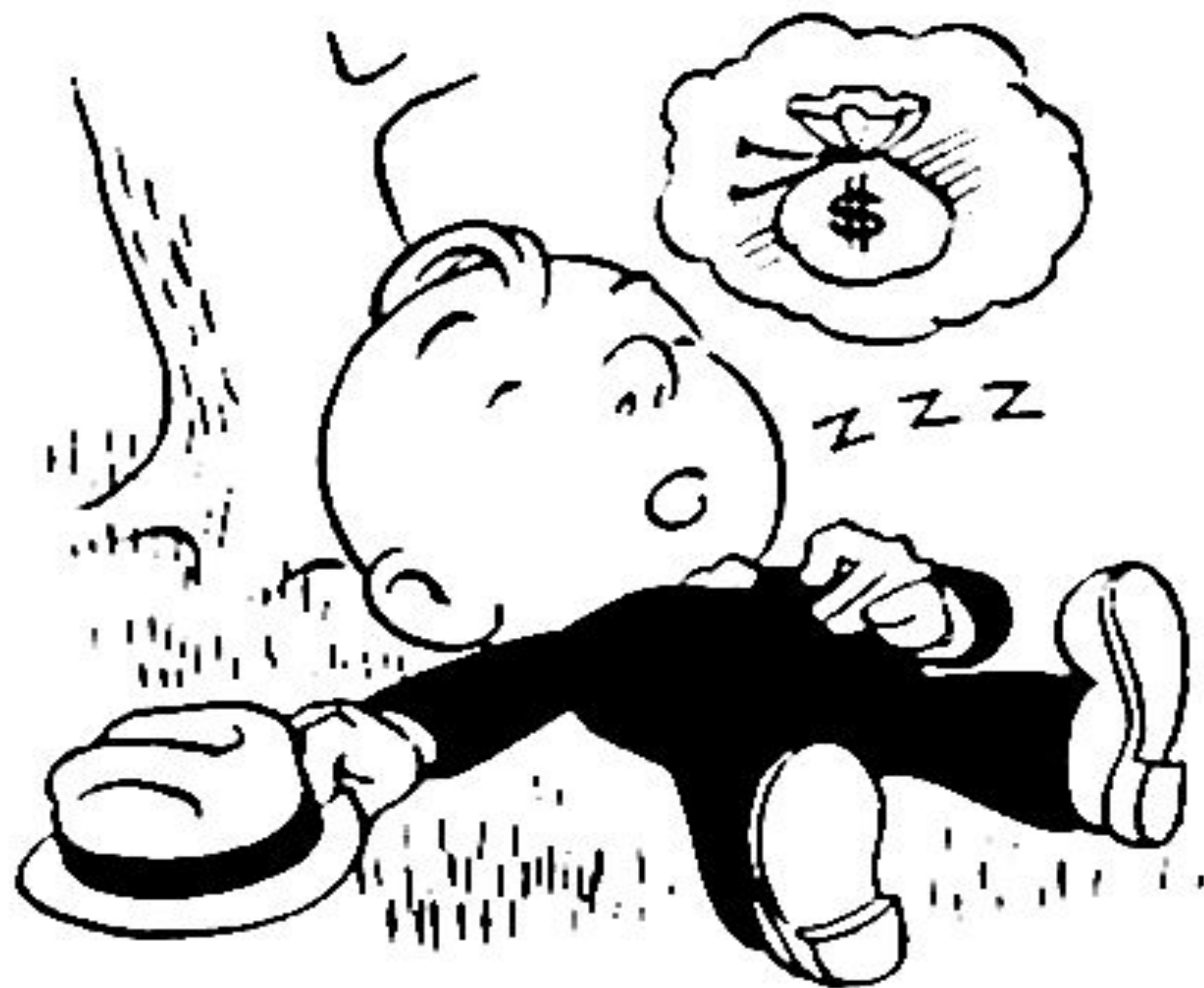


AGENDA

1. Our Vision
2. Lessons Learned
3. New Features
4. Evolution of digital/hybrid Intromath



WHO ARE WE?





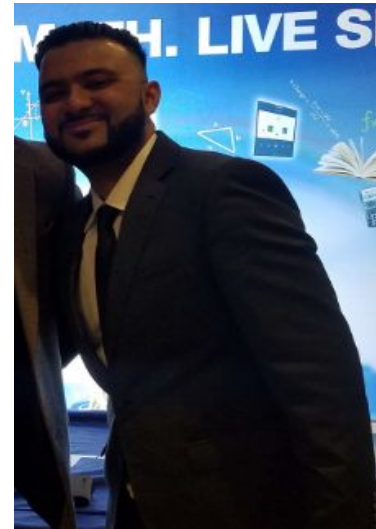


**OUR VISION
IS A WORLD
WHERE EVERYONE ENJOYS MATH**

INTRODUCTIONS



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**PERSONALISED
LEARNING**
for all students





INTRO MATH

INTERACTIVE AND ENGAGING CONTENT



Kalamazoo**VALLEY**TM
community college






SUCCESS IN ACADEMIC UPGRADING

ELEVATE MY MATH



NON-DIRECT ENTRY STUDENTS

ACE, LBSN, AU

 **MOHAWK**

COLLEGE

ST. CLAIR
COLLEGE

 **Northern
COLLEGE**
northernc.on.ca



FANSHAWE



HUMBER



SUCCESS IN TEACHER EDUCATION

ELEVATE MY MATH



TEACHER CANDIDATES

Primary, Junior,
and Intermediate



THE UNIVERSITY OF
WESTERN
AUSTRALIA



UNIVERSITY
of DERBY



NIPISSING
UNIVERSITY

SUCCESS IN TEACHER EDUCATION

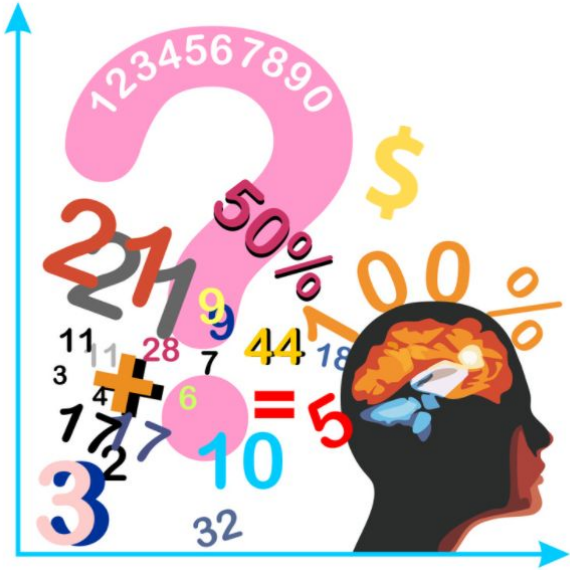


**TEACHER
TRAINERS**



The National Association of
School-Based Teacher Trainers

Lessons Learned



- Transition from hybrid/blended to fully online was rather smooth for our clients
- Interactive Lessons provided a personalized learning experience that supplemented the lack of in-class time for students
- Demand for digital testing solutions increased substantially
- New features had to be designed and deployed to meet the needs of our clients



Vretta

AFFORDABLE + FLEXIBLE + ENGAGING
= HAPPY (STUDENTS + TEACHERS)



DEMO



MULTIPLE RESPONSE TYPES

SELECTED/MULTI-SELECT

Question 1 of 10

A \$4,000 bond had a coupon rate of 5.30% with interest paid semi-annually. Ronald purchased this bond when there were 8 years left to maturity and when the market interest rate was 7.80% compounded semi-annually. She held the bond for 2 years, then sold it when the market interest rate was 3.20% compounded semi-annually.

Full solutions should be included and submitted.

a. Calculate the purchase price of the bond.

☐ \$3,386.97

☐ \$2,168.76

☐ \$1,244.30

☐ \$3,413.06

b. Calculate Ronald's selling price.

☐ \$3,528.01

☐ \$3,306.25

CONSTRUCTED

Question 8 of 8

Becky has just returned from a holiday in the United States with US\$73 of currency. How much would she receive from the bank when she converts the currency back to Canadian dollars, assuming that the bank offers an exchange rate of C\$1.00 = US\$0.9652 and charges a 1.20% commission on the transaction?

Round to the nearest cent

TECHNOLOGY ENHANCED

Question 10 of 10

The following table displays some data about the top scoring NHL (National Hockey League) players in the 2017-2018 season, ranked by total points scored.

Player	Rank	Age	Jersey Number	Team	Goals	Points
Connor McDavid	1	21	97	Edmonton Oilers	41	108
Claude Giroux	2	30	28	Philadelphia Flyers	34	102
Nikita Kucherav	3	24	86	Tampa Bay Lightning	39	100
Evgeni Malkin	4	31	71	Pittsburgh Penguins	42	98

Identify the level of data measurement for each of the following variables as provided in the table.

Variable	Level of Measurement
Rank	<input type="text" value="(click to select)"/>
Jersey Number	<input type="text" value="(click to select)"/>
Team	<input type="text" value="(click to select)"/>

SUBMIT QUESTION

MULTI-STEP/COMBINED

Question 7 of 8

A retail outlet purchases shoes for \$35 each pair and sells them at a regular price of \$46 each pair.

a. If the profit made is \$6 per pair, calculate the overhead expense per pair.

Round to two decimal places

b. If the markdown offered during a Boxing Week sale is 20%, calculate the reduced selling price and the profit or loss made on the sale of each pair.

Reduced selling price:

Round to two decimal places

Profit or loss made:

Enter profit as a positive value or loss as a negative, rounded to two decimal places

TABULAR

Question 4 of 4

Calculate the missing values. Express dollar values rounded to two decimal places and break-even volumes rounded up to the next integer.

Fixed Cost (FC) per month	Variable Cost (VC) per unit	Selling Price (\$S) per unit	Break-even Volume (x) per month	Total Variable Cost at Break-even (TVC) per month	Total Revenue (TR) per month at Break-Even
\$8,400.00	\$25.00	\$37.00	<input type="text"/>	<input type="text"/>	<input type="text"/>
\$126,000.00	\$470.00	<input type="text"/>	1,020	<input type="text"/>	<input type="text"/>
\$730.00	<input type="text"/>	\$78.00	21	<input type="text"/>	<input type="text"/>
<input type="text"/>	\$34.00	\$51.00	430	<input type="text"/>	<input type="text"/>

ALGEBRAIC LOGBOOK

Logbook

Question 7

This is what I used in my calculator

Finance

PMT Setting	
N	2
PV	13000
FV	13658.13
PMT	1
I/Y	6
P/Y	2
C/Y	7

Clear Save

DASHBOARDS AND ANALYTICS













- Real-Time dashboards providing vital analysis on topical performance, item performance, lesson engagement, performance improvement, average/best score by attempt etc.
- Macro Level and Micro level trends visible at a glance, or for more in-depth views down to individual student response.
- Raw data is exportable, or integratable into most common VLE's and SIS's.

New Features

1. Logbook
2. Spreadsheet validation
3. Student upload work
4. New Review Marks

New Review Marks Layout

<div>Test 1 (Graded)</div> <div>Open Date: June 14, 2021, 12:00 AM Close Date: June 17, 2021, 11:59 PM</div> <div>Class Average 81.09%</div> <div></div> <div>DETAILS</div>	<div>Test 2 (Graded)</div> <div>Open Date: July 12, 2021, 12:00 AM Close Date: July 15, 2021, 11:59 PM</div> <div>Class Average 85.31%</div> <div></div> <div>DETAILS</div>	<div>Test 3 (Graded)</div> <div>Open Date: August 09, 2021, 12:00 AM Close Date: August 12, 2021, 11:59 PM</div> <div>Class Average 82.97%</div> <div></div> <div>DETAILS</div>
<div>Assessment #0</div> <div>Open Date: May 17, 2021, 12:00 AM Close Date: August 30, 2021, 11:59 PM</div> <div>Class Average 2.86%</div> <div></div> <div>DETAILS</div>	<div>Lab #1</div> <div>Open Date: May 17, 2021, 12:00 AM Close Date: May 30, 2021, 11:59 PM</div> <div>Class Average 87.74%</div> <div></div> <div>DETAILS</div>	<div>Lab #2</div> <div>Open Date: May 17, 2021, 12:00 AM Close Date: June 06, 2021, 11:59 PM</div> <div>Class Average 91.2%</div> <div></div> <div>DETAILS </div>
<div>Lab #3</div> <div>Open Date: May 17, 2021, 12:00 AM Close Date: June 13, 2021, 11:59 PM</div> <div>Class Average 83.8%</div> <div></div> <div>DETAILS</div>	<div>Lab #4</div> <div>Open Date: May 17, 2021, 12:00 AM Close Date: June 20, 2021, 11:59 PM</div> <div>Class Average 85.29%</div> <div></div> <div>DETAILS</div>	<div>Lab #5</div> <div>Open Date: May 17, 2021, 12:00 AM Close Date: June 27, 2021, 11:59 PM</div> <div>Class Average 77.97%</div> <div></div> <div>DETAILS</div>

New Review Marks Layout

Average completion time show.

Instant hover over Tooltip list of student who did not complete.

Average number of attempt shown.

Ability to select individual students to review their submission in more depth.

Lab #2

▼ Overall Data

Overall Grade



Average time of completion 32 (min)

Average number of attempts 2

11 student(s) out of 34 did not complete the assignment.

Review Student Marks

Click on the button to select a student to view their performance

Select A Student ▶

New Review Marks Layout

Exportable student report with question by question analytics.

Breakdown of success rate by question/bucket and completion time.

Question by question marking for entire class.

Toggle between shuffled and unshuffled view if you are grading submitted hand written work.

The interface is divided into two main sections. The top section displays analytics for 'Bucket 5' and individual 'Question' items. The bottom section shows 'Attempt 1 of 3' with a list of questions and a detailed view of 'Question 1 of 6'.

GRADES **QUESTIONS** ...

Bucket 5 Export Student Report

Question

Success Rate 12 / 18 Avg Completion Time 8 (min)

Question

Success Rate 4 / 16 Avg Completion Time 10 (min)

Attempt 1 of 3

Questions ☒ Shuffle

Q 1	(3/3)
Q 2	(0/2)
Q 3	(2/2)
Q 4	(0/2)
Q 5	(2/3)
Q 6	(0/2)

Question 1 of 6

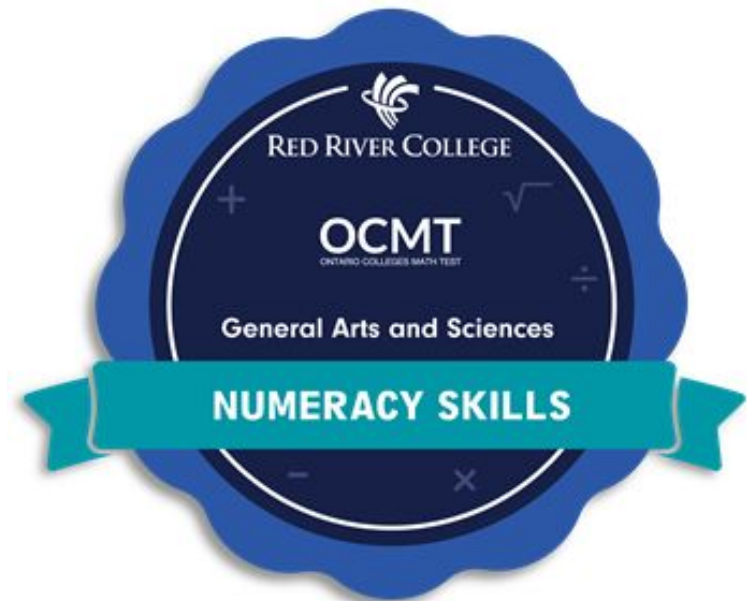
Convert the following percents to decimal numbers:

a. 18%

=

Solution

BADGES AND CERTIFICATES



- Can be conditioned on completion of topics/assessments, and/or based on score.
- Flexibility to be added as co-requisites, required assignments, bootcamps etc.

INTEROPERABLE AND SECURE

LEARNING MANAGEMENT SYSTEMS



Blackboard



canvas
BY INSTRUCTURE



brightspace
by D2L



STUDENT INFORMATION SYSTEMS




ORACLE®
PeopleSoft

Banner® by Ellucian



Vretta

VALUE

- ✓ Helps increase the overall student success in programs.
- ✓ Helps increase first-semester retention rates.
- ✓ Attracts more students to the college by strengthening the institute's rapport as a leader in adopting transformational learning resources, utilizing technology familiar to the modern student.
- ✓ Attracts more students to the institute by preparing them to begin college mathematics studies - they will hit the ground running.
- ✓ Canadian owned and operated. Secure Data and Privacy. 
- ✓ Partner in success.

HIGHER EDUCATION PARTNERS

ONTARIO



ALBERTA



ATLANTIC CANADA



PRAIRIE PROVINCES



BRITISH COLUMBIA



TERRITORIES





AN EDUCATIONAL TECHNOLOGY COMPANY
THAT IS REVOLUTIONIZING MATH EDUCATION,
GLOBALLY.



OUR VISION IS A WORLD
WHERE EVERYONE ENJOYS MATH

CUSTOM RESOURCES IN
4 LANGUAGES

English | French | German | Portuguese

70+
STAFF



PRIMARY
SCHOOLS

SECONDARY
SCHOOLS

POST-SECONDARY
COLLEGES

INDIGENOUS
COMMUNITIES



Vretta

