



Academic Assessment

What is the Academic Assessment?

- The Academic Assessment is a tool used to determine the level at which you need to begin upgrading.
- This will ensure that you will be successful in your academic program.
- When you are placed in the correct level, you are more likely to be successful.
- It is NOT an admissions test.
- It is NOT a Grade Twelve Equivalency Test.

What is the Academic Assessment like?

- Plan to spend about **two hours** to complete all three parts of the test.
- The Academic Assessment consists of the following parts:

English	Writing	Short personal essay	45 minutes
Math (Use of a calculator is not allowed)	Basic Math Skills – adding, subtracting, multiplying, dividing	19 questions	45 minutes
	Higher Math Skills – basic algebra, geometry, measurement and graphing.	13 questions	
General Science	Basic science knowledge questions	10 questions	30 minutes

Who should write the Academic Assessment?

You should write the Academic Assessment if:

- You have been out of school for more than 2 years.
- You are uncertain about your present skill levels.
- An academic advisor or counselor has recommended you take the assessment.

When can I write the Academic Assessment?

- Appointments are scheduled regularly Monday through Friday at 10:00 AM and 1:00 PM
- Arrangements may be made to write the assessment after 4:00 PM from September through June.

How do I arrange to write the Academic Assessment?

- Make an appointment by calling the Academic Resource Centre at 403-529-3896.
- Come to the Academic Resource Centre at MHC (3rd floor above the library, B-Building) and make an appointment.

How do I prepare for the Academic Assessment?

- The assessment is meant to determine your current skill.
- The sample questions in this handout may be used to prepare for the assessment.
- If you need more practice questions, please ask.
- The following websites have some useful practice questions for a variety of skills:
http://www.testprepreview.com/act_practice.htm
https://www.khanacademy.org/math?gclid=CjwKEAjwh6SsBRCYrKHF7J3NjicSJACUxAh7yih2wm7pt7nXhutP4oUkJ36rRqQxQjcFdCspuaDYkhoCWY_w_wcB

What should I bring to write the Academic Assessment?

- All required materials – paper, pencil, etc. – will be provided.
- Aids – (such as calculators, dictionaries, etc) are NOT allowed.

How do I obtain my results?

- Results are sent directly to Academic Advising.
- You must meet with an academic advisor to discuss your results.
- Make an appointment to meet with an advisor by calling advising at 403-529-3819 or
- Drop by the Advising counter in the central core of the college across from registration.

Why should I return for my results?

- Reviewing the assessment in confidence with an advisor will help you plan your academic program based on your strengths and needs.
- Learning your assessment results is the first step on your path into your College program.

Congratulations!

You have just taken the first step in returning to school. We hope to make your re-entry into school as smooth and enjoyable as possible. Help is always available in the Open Learning/Academic Resources Centre where there are tutors on hand to help you in all upgrading courses.

Sample Questions

ENGLISH ASSESSMENT

Writing Sample

- You will be asked to write a short personal essay from a list of topics. Your essay should be approximately two to three double-spaced pages.
- You will be assessed on
 - thought and detail
 - organization of paragraphs and essay
 - word choice and formation of sentences
 - grammar, spelling, and punctuation.

Example topic: Who is/was the most important person in your life? Discuss why and/or how this person has influenced you.

MATH ASSESSMENT

Math Basic Skills Sample Questions

1. Add: $212 + 122 =$

2. Subtract: $48215 - 17002 =$

3. Multiply: $8042 \times 7 =$

4. Multiply: $235 \times 47 =$

5. Divide: $2 \overline{)4038}$

6. Divide: $25 \overline{)40375}$

7. Add: $2.3055 + 0.0023 =$

8. Subtract: $32.003 - 2.952 =$

9. Multiply: $14.5 \times 2.032 =$

10. Divide: $3.2 \overline{)62.4}$

11. Multiply: $\frac{1}{2} \times \frac{4}{7} =$

12. Divide and reduce to lowest terms:

$$\frac{1}{6} \div \frac{2}{3} =$$

13. Add: $\frac{1}{2} + \frac{3}{8} =$

14. Subtract and reduce to lowest terms:

$$\frac{3}{4} - \frac{1}{3} =$$

15. Multiply and reduce to lowest terms:

$$1\frac{1}{2} \times 3\frac{3}{7} =$$

16. Add and reduce to lowest terms:

$$5\frac{1}{4} + 3\frac{2}{5} =$$

17. Write as a decimal:

$$\frac{2}{25}$$

18. Calculate: 5% of 200 =

Answers: 1) 334 2) 31213 3) 56294 4) 11045 5) 2019 6) 1615 7) 2.3078 8) 29.051 9) 29.464 10) 19.5
11) $\frac{2}{7}$ 12) $\frac{1}{4}$ 13) $\frac{7}{8}$ 14) $\frac{5}{12}$ 15) $5\frac{1}{7}$ 16) $8\frac{13}{20}$ 17) 0.08 18) 10

Higher Math Skills Sample Questions

1. Convert: 6200 m = _____ km.

2. Convert 252 kg = _____ g.

3. Evaluate: $(6 - 10)^2 + 3 \times 5 - 2^3 =$

4. Calculate: 112% of 24 =

5. Multiply: $(-3) \times (-15) =$

6. Divide: $21 \div (-7) =$

7. Calculate: $2^3 \times 2^0 =$

8. Simplify: $3(2x - 4y) =$

9. Multiply: $(2a - 5)(6a + 2)$

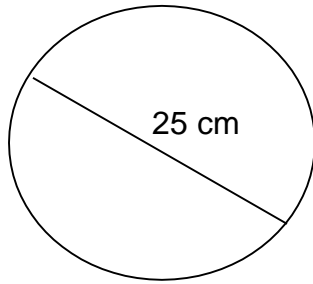
10. Factor: $49a^2 - 36b^2$

11. Solve: $4x - 2 = x + 5$

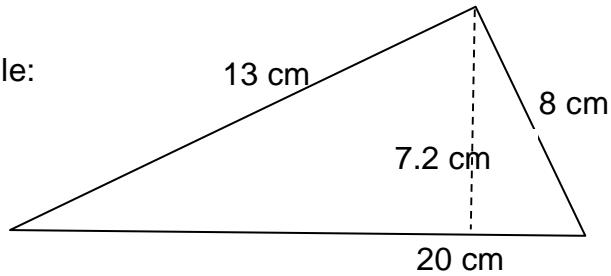
12. Solve: $6y + 4 = 2(y - 1)$

13. Solve: $2x^2 - 10x + 8 = 0$

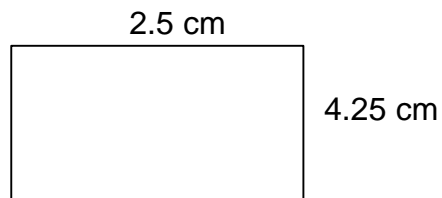
14. Find the circumference of this circle. Use 3.14 for π .



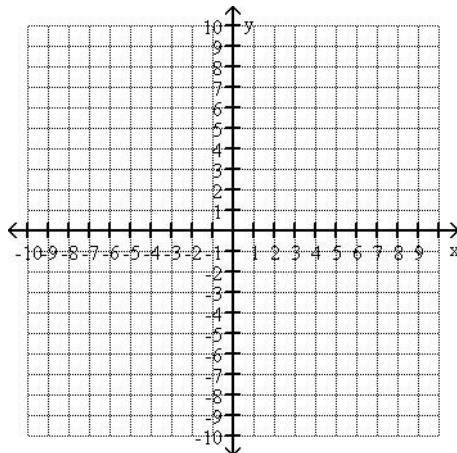
15. Find the area of this triangle:



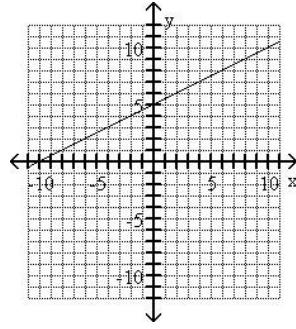
16. Find the perimeter of this rectangle:



17. Graph: $y = \frac{1}{2}x + 5$



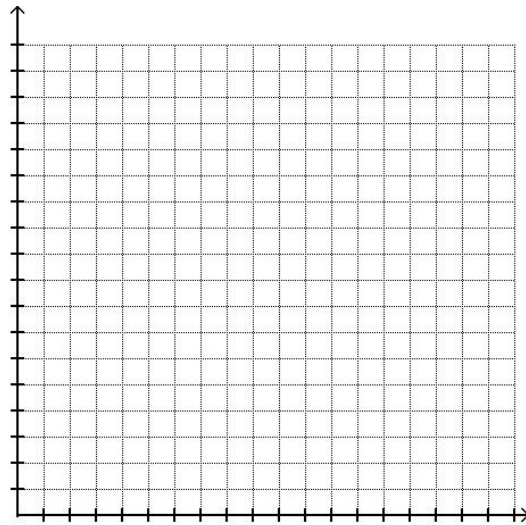
Answers: 1) 6.2 2) 252000 3) 23 4) 26.88 5) 45 6) -3 7) 8 8) $6x - 12y$ 9) $12a^2 - 26a - 10$
10) $(7a + 6b)(7a - 6b)$ 11) $x = \frac{7}{3}$ 12) $y = -\frac{3}{2}$ 13) $x = 4, x = 1$ 14) 78.5 cm 15) 72 cm^2
16) 13.5 cm 17)



General Science Sample Questions

1. Use the following information to draw a graph relating weight to the length of a certain species of mouse. Use an appropriate title, scale, labels, and units. Draw a best fit line through the data points.

Length	Weight
4.5 cm	158 g
5.8 cm	200 g
6.2 cm	215 g
7.5 cm	263 g
8.4 cm	295 g
9.0 cm	310 g



2. If a car uses 25 litres of gas on a 310 trip, how many litres of gas would the car use if it travelled 500 km? km road

3. Complete the following conversions:

- a) 25.2 km = _____ mm
b) 45.5 mL = _____ L
c) 25 000 g = _____ cg
d) 345.6 kg = _____ mg
e) 25 cm³ = _____ mm³

4. Solve for h:

a) $A = \frac{1}{2}h(a + b)$

b) $\frac{7.5}{h} = \frac{35}{45}$

5. Multiply and give the correct units:

a) $250 \text{ g} / \text{mol} \times 2.25 \text{ mol} / \text{L} =$

b) $2.5 \text{ cm}^3 / \text{g} \times 1 \text{ L} / 1000 \text{ cm}^3 =$

6. Solve the equation:

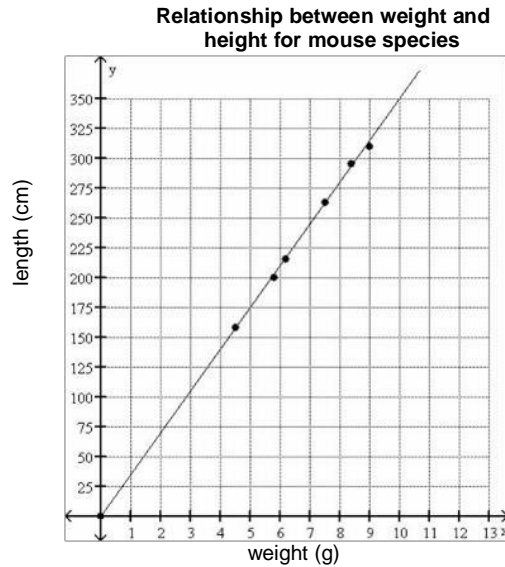
a) $3x - 2(x - 1) = 5 - 5x$

b) $\frac{1}{3}y + 5 = 2y - \frac{1}{2}$

7. The kinetic energy of an object is related to the velocity squared. If the velocity of an object is doubled, by what factor will the kinetic energy increase?
8. The length of spring is inversely proportional to the force applied to compress it. When a force of 10 N is applied, the length of the spring is 30 cm. What will the length of the spring be if the force applied is 20 N?

Answers:

1.



2. 40 L 3.a) 25 200 000 b) 45500 c) 250 d) 345 600 000 e) 25 000 4. a) $h = \frac{2A}{a+b}$ b) $h = 9.6$ 5. a) 563 g/L
 b) 0.0025 L/g 6. a) $x = \frac{1}{2}$ b) $y = 3.3$ 7. by a factor of 4 8. the length will be half as much