



PRE-ADMISSION TESTING SAMPLE QUESTIONS – GRADE 10 MATH

Testing Information:

- Multiple choice style, computer based test, timed at 1 hour
- Topics include: addition, subtraction, multiplication, division, mixed numerals, fractions, whole numbers and decimals (approx. 30 questions)
- A popup on-screen calculator will be available. Scrap paper and pencils can be used for rough calculations.

For information regarding minimum score requirements for eligibility into your program, please contact Admissions.

Testing Policies:

- Pre-Admission math tests are valid for three (3) Mohawk College intake terms. Intake terms include Fall, Winter and Summer.
- It replaces a Math from your transcript for eligibility into a program at Mohawk College only.
- The grades are not transferrable to other colleges
- **Photo I.D** is required for check-in. You will not be permitted to test without valid photo I.D.

If you require testing accommodations due to a disability, please call the Testing Centre at 905-575-2448.

Pre-Admission Testing Centre
905-575-2448
preadmissiontesting@mohawkcollege.ca

PRE-ADMISSION TESTING SAMPLE QUESTIONS – GRADE 10 MATH

Topic 1: Fractions

1) Reduce $\frac{9}{36}$

2) Convert this fraction into a mixed number in lowest terms $\frac{60}{25}$

3) Find the Least Common Denominator of $\frac{1}{3}, \frac{1}{15}, \frac{1}{9}$

4) Two pins measure $\frac{3}{6}$ and $\frac{4}{9}$

a) What is the length of the larger pin?

b) What is the length difference between the two pins?

5) Add the fractions and bring your answer to lowest terms $\frac{1}{5} + \frac{1}{10} + \frac{1}{6}$

6) Add $2\frac{1}{2} + \frac{1}{4} + \frac{1}{5}$

7) Add $4\frac{1}{3} - 1\frac{1}{7}$

8) Multiply $4\frac{2}{9} \times 1\frac{1}{6}$

9) Divide $3\frac{1}{2} \div 1\frac{2}{3}$

10) Simplify $9\frac{3}{4} + \frac{1}{5}$
 $\frac{5}{8}$

11) Find the value of x given $\frac{x}{23} = \frac{15}{3}$

Topic 2: Decimals

- 1) Divide 1.3289 by 0.431 and round to three decimal places
- 2) Convert $158\frac{3}{5}$ to a decimal. Round to one decimal place.
- 3) Convert 11.78 to a mixed fraction
- 4) Evaluate $2,300 + 3.13 + 1.09$. Round to one decimal place.
- 5) Evaluate $1.35 - 26.491 + 11.7$. Round to three decimal places.
- 6) Evaluate $0.6 \times 12.34 \times 1.4$. Round to two decimal places.
- 7) Divide 1.113 by 0.56. Round to three decimal places
- 8) Determine the volume of an aquarium with these definitions:
Length = 78 cm; Width = 6 cm; Height = 43 cm
- 9) Bob makes \$888.87 per week before deductions. The following deductions are made from his paycheck: Income Tax \$124.00; Company Pension \$42.86; C.P.P. \$38.97; and Dental Plan = \$31.97.
What are his total Deductions? What is his take-home pay?
- 10) Determine how much change you would get from \$100 if you purchased 31.9 litres of gas at a cost of 96.7 cents per litre.

Answer Sheet- Grade 10

Topic 1: Fractions

- 1) $\frac{1}{4}$
- 2) $2\frac{2}{5}$
- 3) 45
- 4) $\frac{1}{2}, \frac{1}{18}$
- 5) $\frac{7}{15}$
- 6) $2\frac{19}{20}$
- 7) $3\frac{4}{21}$
- 8) $4\frac{25}{27}$
- 9) $2\frac{1}{10}$
- 10) $15\frac{23}{25}$
- 11) 115

Topic 2: Decimals

- 1) 3.083
- 2) 158.6
- 3) $11\frac{39}{50}$
- 4) 2,304.2
- 5) -13.441
- 6) 10.37
- 7) 1.988
- 8) 20,124 cm³
- 9) \$237.80 ; \$651.07
- 10) \$69.15