

BASIC MPT MATERIALS

For Placement into Math 097, Math 190 and Stat 101

Review Material	Location
<p>1. Web site</p> <p>General MPT information.</p> <p>Sample questions and answers that highlight the most important topic areas covered in the Math Placement Test.</p> <p>Links to other sites with review material.</p>	<p>https://www.capilanou.ca/student-life/academic-support/additional-learning-support/math-placement-test-mpt/</p> <p>https://www.capilanou.ca/student-life/academic-support/additional-learning-support/math-placement-test-mpt/</p>
<p>2. Texts</p> <p><i>Essential Mathematics with Applications</i> by L. Trivieri</p> <p><i>Developmental Mathematics</i> by M. Bittinger and J. Beecher.</p> <p><i>Integrated Arithmetic and Algebra</i> B. Jordan and W. Palow.</p> <p><i>Arithmetic and Algebra</i> by Rosanne Proga.</p> <p><i>Prealgebra: A Worktext</i> by D. Franklin Wright.</p>	<p>On reserve in Library under MPT.</p> <p>On reserve in Library under MPT.</p> <p>On reserve in Library under MPT.</p> <p>On reserve in Math Learning Centre (LB 126e).</p> <p>On reserve in Math Learning Centre (LB 126e).</p>
<p>3. Audio-Visual (and accompanying resources)</p> <p><i>The Video Tutor</i> (DVD) by Ted Bentley. Only the following videos from <i>The Video Tutor</i> are relevant for students preparing for the Basic MPT:</p> <p>1.1.1 What is Algebra? 1.1.2 Basic Algebraic Properties 1.1.3 Rational Number Arithmetic 1.3.1 Math Models</p> <p><i>The Video Tutor Guide</i> by Ted Bentley. This is a companion workbook for <i>The Video Tutor</i>. It contains examples for students to work through to accompany each video segment of <i>The Video Tutor</i>.</p>	<p>Library A/V Department (QA 154.2 M858 1992)</p> <p>Library A/V Department (QA 154.2 M858 1992)</p> <p>Capilano University Bookstore</p>

Topic Overview**Sample Questions****Answers****1. Arithmetic**

$16 \overline{)340} =$

21.25

2. Order of operations

$15 - 6 \times 2 + 5 =$

8

3. Signed number arithmetic

$-8 - (4 - 7) + 2 =$

-3

4. Common fractions

$6 \cdot \frac{4}{27} =$

 $\frac{8}{9}$

$4\frac{2}{3} - 3\frac{2}{9} =$

 $\frac{13}{9}$

$3\frac{3}{4} \div 1\frac{7}{8} =$

2

5. Decimal fractionsConvert to a decimal: $\frac{21}{16} =$

1.3125

6. Percentage fractions

3 is what percentage of 24?

12.5%

Convert to a decimal: 7.5%

0.075

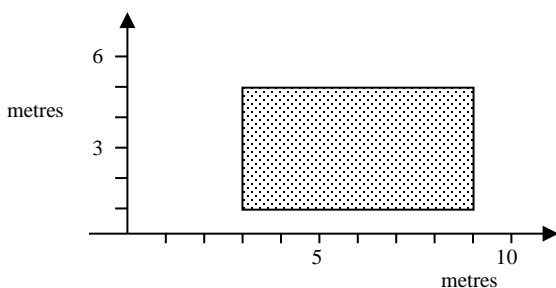
7. Basic algebraIf $x = 9$ and $y = -2$ determine the value of $4\sqrt{x} - y^3$.

20

Solve for x p $3(5 - x) = 2x + 7$ $x = 1.6$ Solve for x : $a(b - x) = cx + d$ $x = \frac{ab - d}{a + c}$ **8. Basic applications**

A jacket is reduced from \$125 to \$100. What percentage reduction is this?

20%

A car rental company charges \$30 plus 5 cents per kilometre driven. Write an expression for the cost c (in dollars) for a car driven d kilometres. $c = 30 + 0.05d$ 

On a test 24 students passed and 8 failed. What percentage failed?

25%

What is the area of the shaded rectangle?

24 m²

What is the perimeter of the shaded rectangle?

20 m