

## GRADE 10 MATHEMATICS MARCH TEST

### QUESTION 1

- 1.1 Copy and complete the following table on your answer sheet. Only tick in the applicable columns.

	N	N <sub>1</sub>	Z	Q	Q'	X	X'
$\sqrt{9} + 8$							
$\frac{5}{2}$							
0,75/3							
$\sqrt{5}$							

- 1.2 Determine between which integers the following irrational number lies:

$$\sqrt{17}$$

- 1.3 Use the ladder method to give the prime factors of 5104.

*Not to scale, not to copy!*

### QUESTION 2

Factorise the following expressions:

2.1  $x^2 - 49$

2.2  $2x^2 + 5x - 12$

2.3  $6x^2 - 13x + 6$

2.4  $3x^2 + 9x - 12$

### QUESTION 3

Simplify the following expressions:

3.1  $(x - 5)(3x + 2)$

3.2  $6x^2 - 12x + 6$

3.3  $\frac{3x^2 + 6x}{3x}$

### QUESTION 4

Simplify the following using the exponential laws.

4.1  $\frac{1}{x^2}$

4.2  $\frac{x^3 \cdot x^2}{x^5}$

Solve for  $x$ :

4.3  $2^x - 5 = 11$

### QUESTION 5

Solve for  $x$ :

5.1  $(x - 3)(x + 5) = 0$

5.2  $3x^2 + 10x - 8 = 0$

5.3  $\frac{1}{x} + \frac{1}{x+1} = \frac{1}{x+2}$

5.4  $\frac{x+2}{x} + 5 > 8$

5.5 Solve  $x$  and  $y$  simultaneously:

$$\begin{cases} x + y = 10 \\ x - y = 2 \end{cases}$$

5.6 Jane is 3 years older than her sister. Together they are 19 years old.

*Not to scale, not to copy!*

### QUESTION 6

6.1 Use the following triangle to determine the trigonometric ratios:



6.1.1

6.1.2

6.1.3

# 2013 Maths Grade 10 March Common Question Paper

**Peter Catterall, Virginia Preston**



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[11 General Mathematics VCE Units 1 and 2 3e learnON and Print](#) Steven Morris, Michael Sheedy, James Smart, Caitlin Mahony, Brandon Chuah, 2022-12-27 **Mathematical and Statistical Estimation Approaches in Epidemiology**

Gerardo Chowell, James M. Hayman, Luís M. A. Bettencourt, Carlos Castillo-Chavez, 2009-06-06 *Mathematical and Statistical Estimation Approaches in Epidemiology* compiles theoretical and practical contributions of experts in the analysis of infectious disease epidemics in a single volume Recent collections have focused in the analyses and simulation of deterministic and stochastic models whose aim is to identify and rank epidemiological and social mechanisms responsible for disease transmission The contributions in this volume focus on the connections between models and disease data with emphasis on the application of mathematical and statistical approaches that quantify model and data uncertainty The book is aimed at public health experts applied mathematicians and scientists in the life and social sciences particularly graduate or advanced undergraduate students who are interested not only in building and connecting models to data but also in applying and developing methods that quantify uncertainty in the context of infectious diseases Chowell and Brauer open this volume with an overview of the classical disease transmission models of Kermack McKendrick including extensions that account for increased levels of epidemiological heterogeneity Their theoretical tour is followed by the introduction of a simple

methodology for the estimation of the basic reproduction number  $R$  The use of this methodology 0 is illustrated using regional data for 1918 1919 and 1968 in uenza pandemics *Pratiyogita Darpan* ,2008-01 Pratiyogita Darpan monthly magazine is India s largest read General Knowledge and Current Affairs Magazine Pratiyogita Darpan English monthly magazine is known for quality content on General Knowledge and Current Affairs Topics ranging from national and international news issues personality development interviews of examination toppers articles write up on topics like career economy history public administration geography polity social environment scientific legal etc solved papers of various examinations Essay and debate contest Quiz and knowledge testing features are covered every month in this magazine

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