

Geometry, Measurement & Transformations

Question 1: Multiple choice

(20)

1. Identify the 3-D shape with 10 vertices, 15 edges and 7 faces.

A) hexagonal prism	B) pentagonal pyramid
C) hexagonal pyramid	D) pentagonal prism
2. A square with an area of $40\,000\text{ cm}^2$, has sides of:

A) 20 cm	B) 200 cm
C) $20\,000\text{ mm}$	D) $0,2\text{ m}$
3. Which one of the following formulas can be used to calculate the area of a circle?

A) $A = \pi r^2$	B) $A = \pi r$
C) $A = 2\pi r$	D) $A = \pi \Delta$
4. The sum of the interior angles of a scalene triangle is equal to:

A) 360°	B) 180°
C) 720°	D) 90°
5. The diagonals of a rectangle form:

A) two equilateral triangles	B) two scalene, right-angled triangles
C) two isosceles triangles	D) two quadrilaterals
6. How many lines of symmetry are there in a regular octagon?

A) none	B) ten
C) eight	D) twelve
7. If a right angle is added to an acute angle, the new angle will be a/an:

A) obtuse angle	B) reflex angle
C) revolution	D) straight angle
8. Which of the following shapes can be classified as a parallelogram?

A) square	B) trapezium
C) rectangle	D) rhombus
9. One of the following shapes has only two lines of symmetry?

A) pentagon	B) square
C) parallelogram	D) rectangle
10. Which formula can be used to calculate the area of a triangle.

A) $A = \pi r^2 \times \frac{1}{2} H$	B) $A = b \times \frac{1}{2} H$
C) $A = \frac{1}{2} H \times b$	D) $A = \frac{1}{2} b \times \frac{1}{2} H$

2014 Mathematics Caps Question Paper Term 1

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Stochastic Interest Rate Modeling With Fixed Income Derivative Pricing (Third Edition) Nicolas Privault, 2021-09-02 This book introduces the mathematics of stochastic interest rate modeling and the pricing of related derivatives based on a step by step presentation of concepts with a focus on explicit calculations The types of interest rates considered range from short rates to forward rates such as LIBOR and swap rates which are presented in the HJM and BGM frameworks The pricing and hedging of interest rate and fixed income derivatives such as bond options caps and swaptions are treated using forward measure techniques An introduction to default bond pricing and an outlook on model calibration are also included as additional topics This third edition represents a significant update on the second edition published by World Scientific in 2012 Most chapters have been reorganized and largely rewritten with additional details and supplementary solved exercises New graphs and simulations based on market data have been included together with the corresponding R codes This new edition also contains 75 exercises and 4 problems with detailed solutions making it suitable for advanced undergraduate and graduate level students

Drawing for Science Education Phyllis Katz, 2017-03-23 This book argues for the essential use of drawing as a tool for science teaching and learning The authors are working in schools universities and continual science learning CSL settings around the world They have written of their experiences using a variety of prompts to encourage people to take pen to paper and draw their thinking sometimes direct observation and in other instances their memories The result is a collection of research and essays that offer theory techniques outcomes and models for the reader Young children have provided evidence of the perceptions that they have accumulated from families and the media before they reach classrooms Secondary students describe their ideas of chemistry and physics Teacher educators use drawings to consider the progress of their undergraduates understanding of science teaching and even their moral ethical responses to teaching about climate change Museum visitors have drawn their understanding of the physics of how exhibit sounds are transmitted A physician explains how the history of drawing has been a critical tool to medical education and doctor patient communications Each chapter contains samples

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