

SECTION I

Answer ALL questions.

All working MUST be clearly shown.

1. (a) Using a calculator, or otherwise, find the

(i) a) EXACT value of

$$\frac{7}{8} + \frac{1}{6} \div \frac{2}{9}$$

SOLUTION:

Required to find: The exact value of $\frac{7}{8} + \frac{1}{6} \div \frac{2}{9}$

Solution:

The correct way in which such a question should be written is

$$\frac{7}{8} + \frac{1}{6} \div \frac{2}{9} = \frac{7}{8} + \left(\frac{1}{6} \div \frac{2}{9} \right)$$

$$\text{First we work } \frac{1}{6} \div \frac{2}{9} = \frac{1}{6} \times \frac{9}{2} = \frac{9}{12} = \frac{3}{4}$$

$$\begin{aligned} \text{Hence, } \frac{7}{8} + \frac{1}{6} \div \frac{2}{9} &= \frac{7}{8} + \frac{3}{4} \\ &= \frac{7 + 2(3)}{8} \\ &= \frac{13}{8} \\ &= 1\frac{5}{8} \text{ (in exact form)} \end{aligned}$$

b) $\frac{8}{0.4^3}$

SOLUTION:

Required to find: The exact value of $\frac{8}{0.4^3}$

Solution:

$$\begin{aligned} \frac{8}{0.4^3} &= \frac{8}{0.4 \times 0.4 \times 0.4} \\ &= \frac{8}{0.064} \end{aligned}$$

Using the calculator, we get $= 125$ (in exact form)

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Mathematical Competencies in the Digital Era Uffe Thomas Jankvist, Eirini Geraniou, 2023-02-20 This book focuses on the potential interplay between two distinct yet related paradigm shifts in mathematics education drawing on the notion of networking of theories through illustrative case studies from the Danish educational system and beyond The first paradigm shift is the massive introduction of digital technology in the teaching and learning of the subject the second is a shift from the traditional focusing on mastering of skills and knowledge to being concerned with the possession and development of mathematical competencies This book builds on the Danish KOM Competencies and the Learning of Mathematics project which sources its description of mathematical mastery primarily on the notion of a mathematical competency rather than on lists of topics concepts and results This allows for an overarching framework which captures the perspectives of mathematics teaching and learning at whichever educational level While the KOM framework does not in detail address the role of digital technologies in relation to its description of different types of mathematical competencies etc the chapters of this book set out to do exactly this while in the process also drawing on a selection of other theoretical constructs and frameworks from mathematics education research Starting with introductory chapters by key researchers in the area the book brings forth chapters for each of the KOM framework's eight mathematical competencies authored by Nordic researchers in combination with international scholars The KOM framework also operates with three types of overview and judgement which are specifically addressed in relation to the role of digital technologies in the third part of the book The fourth and final part of the book broadens the scene and provides chapters of a more perspective nature in relation to mathematical competencies in the digital era The book's preface is by Susanne Prediger **The Times Index, January -December 2012**, 2012

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achieved Illustrated throughout with interviews photos and examples of children s work it covers a range of primary subjects and key topics including creating displays outdoor learning and developing a reading for pleasure culture The voice of the practitioner is evident throughout as teachers share their own experience difficulties and solutions to ensure that children are inspired by their learning Written in two parts the first exemplifies examples of practice for each National Curriculum subject whilst the second focuses on the wider curriculum and explores issues pertinent to the primary classroom highlighting important discussions on topics such as Reading for pleasure Writing for pleasure Creating a dynamic and responsive curriculum Creating inspiring displays Outdoor learning Pedagogy for imagination Relationships and Sex Education This key text shows how even within the contested space of education practitioners can inspire their primary learners through teaching with passion and purpose for the empowerment of the children in their class For all new teachers it provides advice and ideas for effective and engaging learning experiences across the curriculum

Disorder and the Disinformation Society Jonathan Paul Marshall,James Goodman,Didar Zowghi,Francesca da Rimini,2015-04-17 This book is the first general social analysis that seriously considers the daily experience of information disruption and software failure within contemporary Western society Through an investigation of informationalism defined as a contemporary form of capitalism it describes the social processes producing informational disorder While most social theory sees disorder as secondary pathological or uninteresting this book takes disordering processes as central to social life The book engages with theories of information society which privilege information order offering a strong counterpoint centred on disinformation Disorder and the Disinformation Society offers a practical agenda arguing that difficulties in producing software are both inherent to the process of developing software and in the social dynamics of informationalism It outlines the dynamics of software failure as they impinge on of information workers and on daily life explores why computerized finance has become inherently self disruptive asks how digital enclosure and intellectual property create conflicts over cultural creativity and disrupt informational accuracy and scholarship and reveals how social media can extend but also distort the development of social movements

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