

Use the mapping below to answer questions 33 and 34.

(35)	→	(1)	→	(3.14)
(1)	→	(2)	→	(6.28)
(2)	→	(4)	→	(12.56)
(3)	→	(6)	→	(x)
(y)	→	(10)	→	(50.24)

33. Find the value of x
A. 9.42 B. 12 C. 18 D. 25.12

34. Find the value of y .
A. 2 B. 5 C. 7 D. 9

35. The area of a square is 49cm^2 . Find the perimeter of the square.
A. 7cm B. 51cm C. 28cm D. 49cm

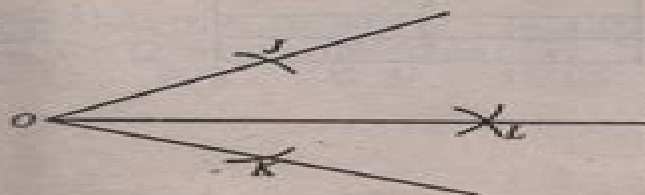
36. The least number in a set of real numbers is 24 and the greatest is 30. Which of the following is the correct interpretation of the statement?
A. $24 \leq x \leq 30$ B. $24 < x \leq 30$
C. $24 < x < 29$ D. $24 < x < 30$

37. Find the area of the trapezium $MNOP$



A. 120 cm^2 B. 72 cm^2 C. 60 cm^2 D. 48 cm^2

38. The length of a field, 1.2km long is represented on a map by a line 40mm long. What is the scale of the map?
A. 1:100 B. 1:300 C. 1:1000 D. 1:30000



The diagram shows the construction for a
A. copying a given line
B. bisecting a line segment
C. drawing a perpendicular to a given line
D. bisecting a given angle.

40. Simplify $\begin{pmatrix} 2 \\ -3 \end{pmatrix} - \begin{pmatrix} -1 \\ 5 \end{pmatrix}$
A. $\begin{pmatrix} -3 \\ 8 \end{pmatrix}$ B. $\begin{pmatrix} 3 \\ -8 \end{pmatrix}$ C. $\begin{pmatrix} -3 \\ -8 \end{pmatrix}$ D. $\begin{pmatrix} 3 \\ 8 \end{pmatrix}$

ESSAY QUESTIONS (1990 – B.E.C.E)

Question 1

- a) List the members of each of the sets
 $B = \{\text{whole numbers from 20 to 30}\}$
and $D = \{\text{factors of 63}\}$. List the members of i) $B \cap D$ ii) $B \cup D$
- b) In a class of 60 students, 46 passed Mathematics and 42 passed English Language. Every student passed at least one of the two subjects.
(i) Illustrate this information on a Venn diagram.
(ii) How many students passed in both subjects?
Let n represent the number of students who passed in both subjects.

Solution

$B = \{\text{whole numbers from 20 to 30}\}$
 $= \{20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30\}$

$D = \{\text{factors of 63}\} = \{1, 3, 7, 9, 21, 63\}$

i) $B \cap D = \{21\}$

ii) $B \cup D = \{1, 3, 7, 9, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 63\}$

- b) Let $U = \{\text{Students in the class}\}$
 $M = \{\text{students who passed Maths}\}$
 $E = \{\text{students who passed English}\}$
 $n = \text{the number of students who passed both subjects}$

3 i) The Venn diagram is shown below.

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Oscar Krisen Buros

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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Lqsg E Maths O Level , **E-math Iii' 2007 Ed.(geometry)** , **Learning Mathematics Successfully** Clark J Hickman, Helene J. Sherman, 2019-09-01 The goal of this book is to bring together the concept of self efficacy theory with practical how to strategies for both teachers and parents to use in heightening their students levels of self efficacy The book examines how self efficacy theory relates to the acquisition of mathematical competence The text also provides specific and practical how to strategies for both teachers and parents in applying these principles to classroom mathematics instruction and activities The self efficacy practices and applications to mathematics are also suitable for families working with learners outside the school environment Acquiring mathematical skills requires more than knowing arithmetic tables memorizing rules and knowing proofs It requires a basic belief that one is capable of obtaining this information making sense of it and applying and generalizing it in mathematical problems In addition a student must believe that obtaining these skills leads to a positive outcome whether it is perceived to be a good or passing grade comfort level in tackling mathematical problems being able to advance to the next mathematics course being able to score highly on the math section of the SAT and or be competitive for a desired job The ability of students to achieve and exceed grade level competence in mathematics is addressed through the lens of Albert Bandura s Self Efficacy Theory This theoretical position states that one will persist in mastering a behavior in this case mastering mathematical principles and skills in the face of obstacles or failures to the extent that one believes he or she has the ability to do so and that there is a desired outcome for doing so The research literature on the role of self efficacy in mathematic instruction is examined to demonstrate the validity of using this concept to increase student and parent teacher confidence in learning and applying grade appropriate math content Specific teaching methodologies will be provided that infuse self efficacy strategies for students Lastly teachers and parents are provided strategies to increase their own self efficacy when it comes to conveying mathematics principles to their child or student as well as strategies to assess their students level of self efficacy over time Teaching and learning mathematics so that students achieve success at their grade level or above can present a variety of challenges One barrier that affects learners is the belief that one is not capable of learning mathematics or not naturally talented in the field not a math person As a result learners may not believe they are capable of a positive outcome for achieving mathematics success This book is an important resource for pre service and in service teachers as well as families in applying the theory of self efficacy to support learners in becoming confident and assured in their ability to understand and apply mathematical principles and procedures Coupled with classroom ready mathematics instructional strategies the book provides readers with the background tools and strategies needed to carry content success and confidence forward to remain persistent in solving all future mathematical problems **E-math Iv' 2007 Ed.(advance Algebra & Trigonometry)** , **CBSE MATHEMATICS PREPARATION 10th** Hari Mohan Krishnatrey ,2025-06-11 Dr Hari Mohan Krishnatrey hailing from a small town in Rajasthan has emerged as a

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