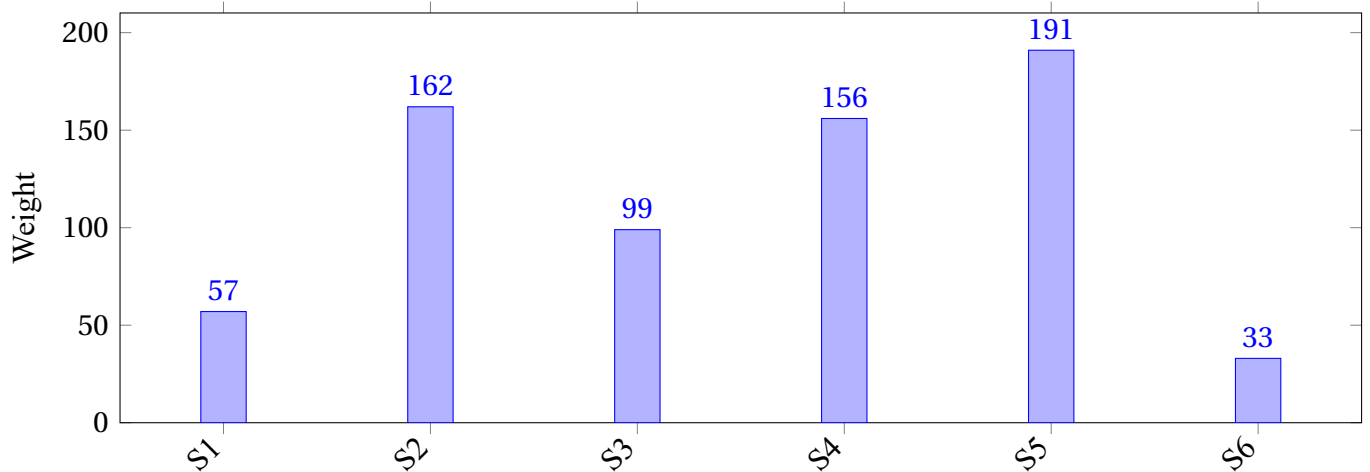
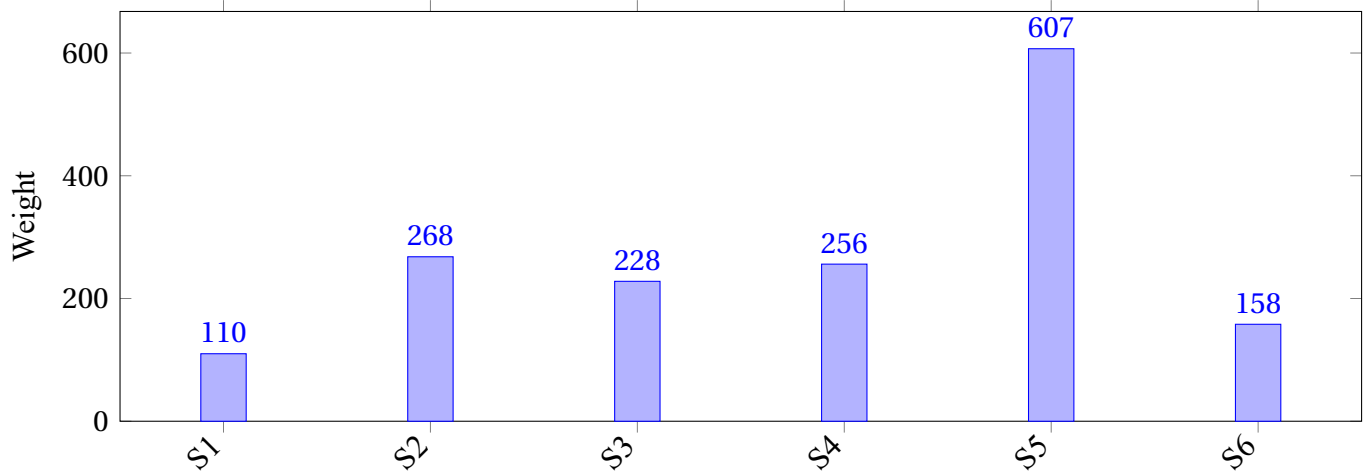
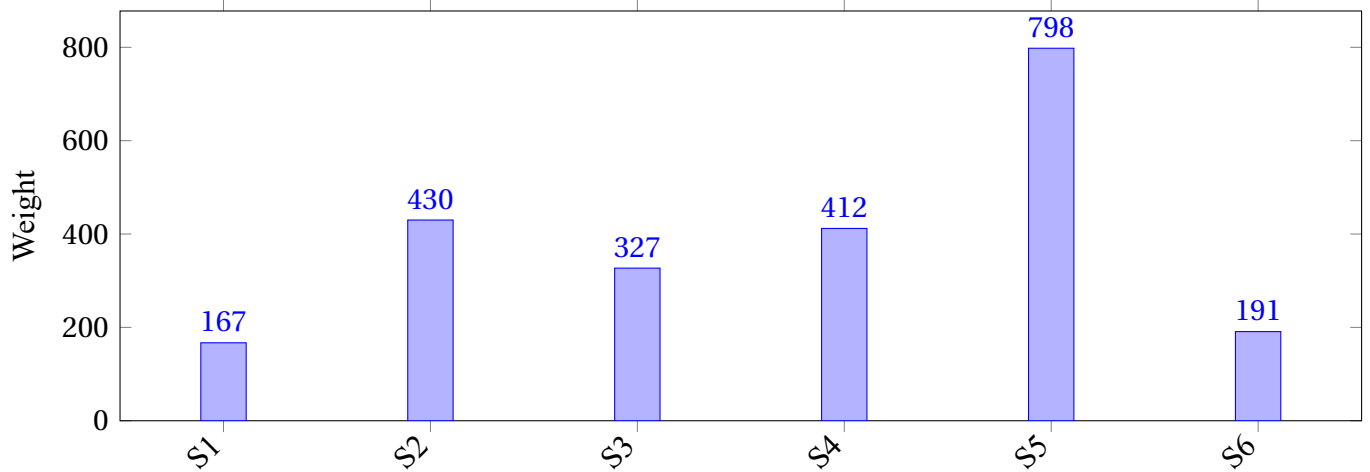


# Statistics on DSE Questions

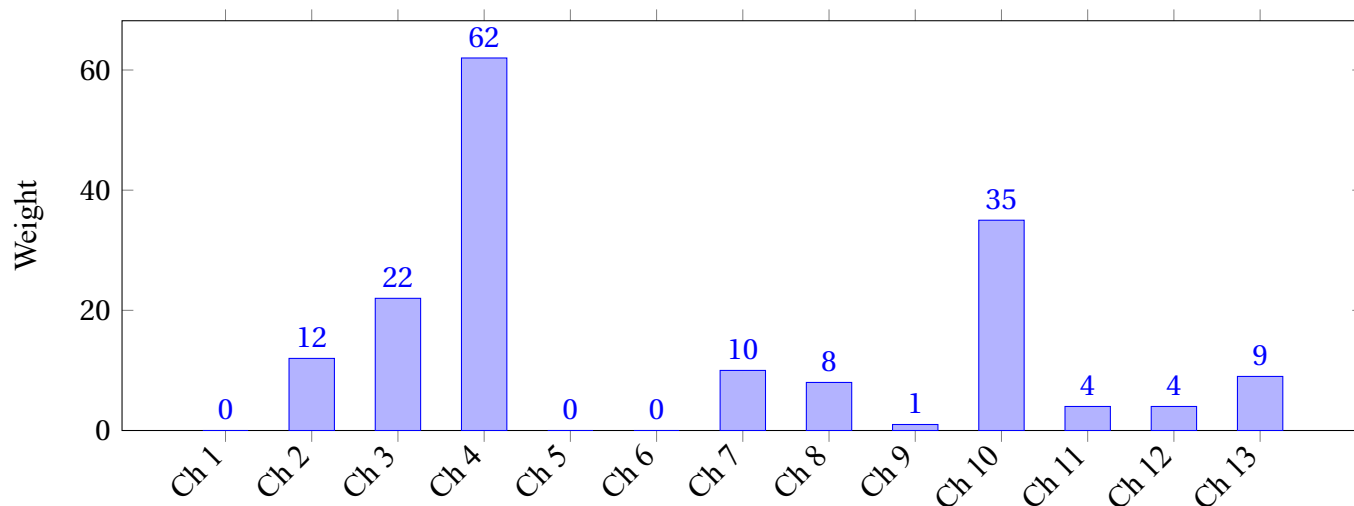
## Mark Distribution from S1 to S6



# S1 Chapters

Ch 1.	Directed Numbers and the Number Line	P.10
Ch 2.	Introduction to Algebra	P.12
Ch 3.	Algebraic Equations in One Unknown	P.14
Ch 4.	Percentages (I)	P.16
Ch 5.	Estimation in Numbers and Measurement	P.18
Ch 6.	Introduction to Geometry	P.19
Ch 7.	Symmetry and Transformation	P.21
Ch 8.	Areas and Volumes (I)	P.22
Ch 9.	Congruence and Similarity	P.23
Ch 10.	Introduction to Coordinates	P.25
Ch 11.	Angles related to Lines	P.27
Ch 12.	Manipulation of Simple Polynomials	P.28
Ch 13.	Introduction of Statistics and Statistical Diagrams	P.30

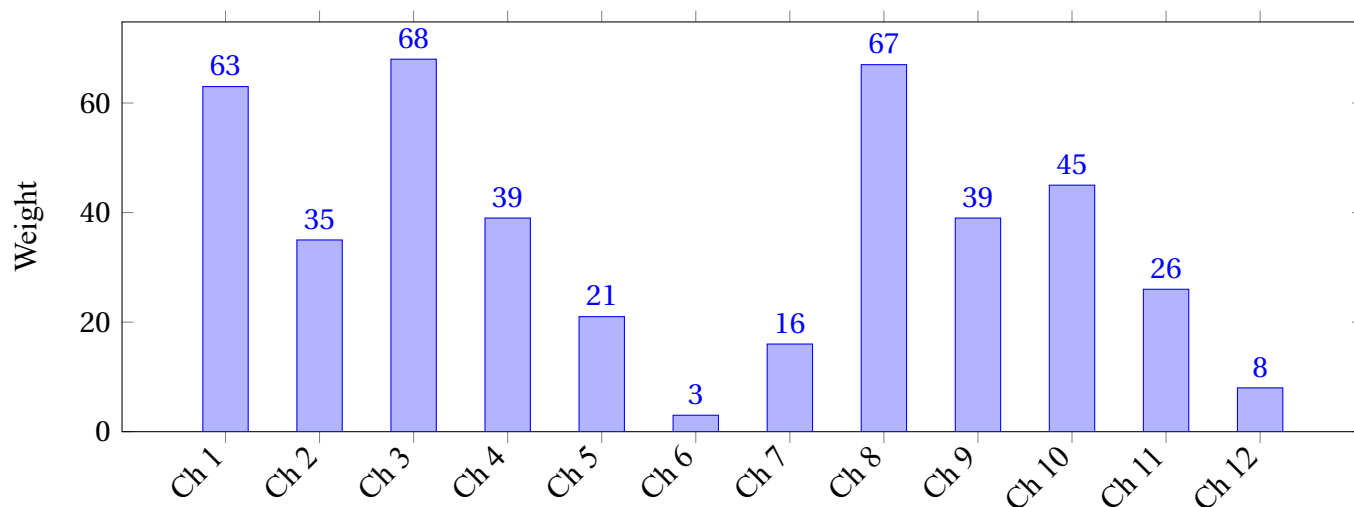
## Mark Distribution from Chapter 1 to Chapter 13



## S2 Chapters

Ch 1.	Rate and Ratio	P.34
Ch 2.	Identities and Factorization	P.36
Ch 3.	Algebraic Fractions and Formulas	P.38
Ch 4.	Approximation and Errors	P.40
Ch 5.	Angles related to Rectilinear Figures	P.42
Ch 6.	More about Statistical Diagrams	P.44
Ch 7.	Linear Equations in Two Unknowns	P.46
Ch 8.	Laws of Integral Indices	P.48
Ch 9.	Introduction to Deductive Geometry	P.50
Ch 10.	Pythagoras' Theorem and Irrational Numbers	P.52
Ch 11.	Areas and Volumes (II)	P.54
Ch 12.	Trigonometric Ratios	P.56

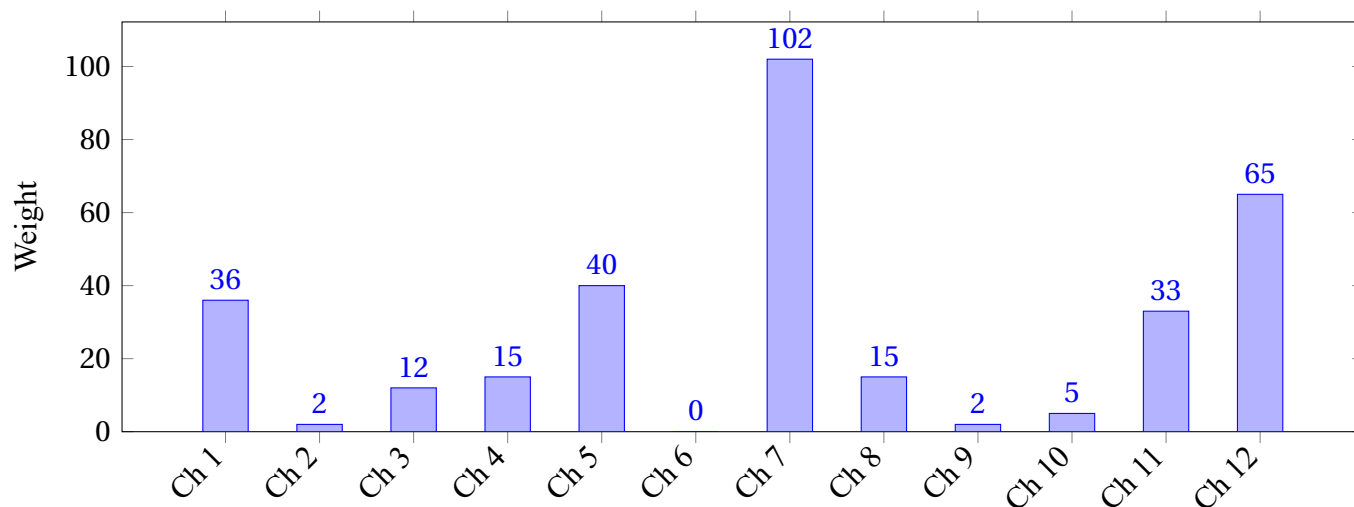
## Mark Distribution from Chapter 1 to Chapter 12



## S3 Chapters

Ch 1.	More about Factorization of Polynomials	P.60
Ch 2.	Linear Inequalities in One Unknown	P.62
Ch 3.	Percentages (II)	P.63
Ch 4.	Special Lines and Centres in a Triangle	P.65
Ch 5.	Quadrilaterals	P.67
Ch 6.	More about 3-D Figures	P.69
Ch 7.	Areas and Volumes (III)	P.71
Ch 8.	Coordinate Geometry of Straight Lines	P.73
Ch 9.	Trigonometric Relations	P.75
Ch 10.	Applications of Trigonometry	P.76
Ch 11.	Measures of Central Tendency	P.78
Ch 12.	Introduction to Probability	P.80

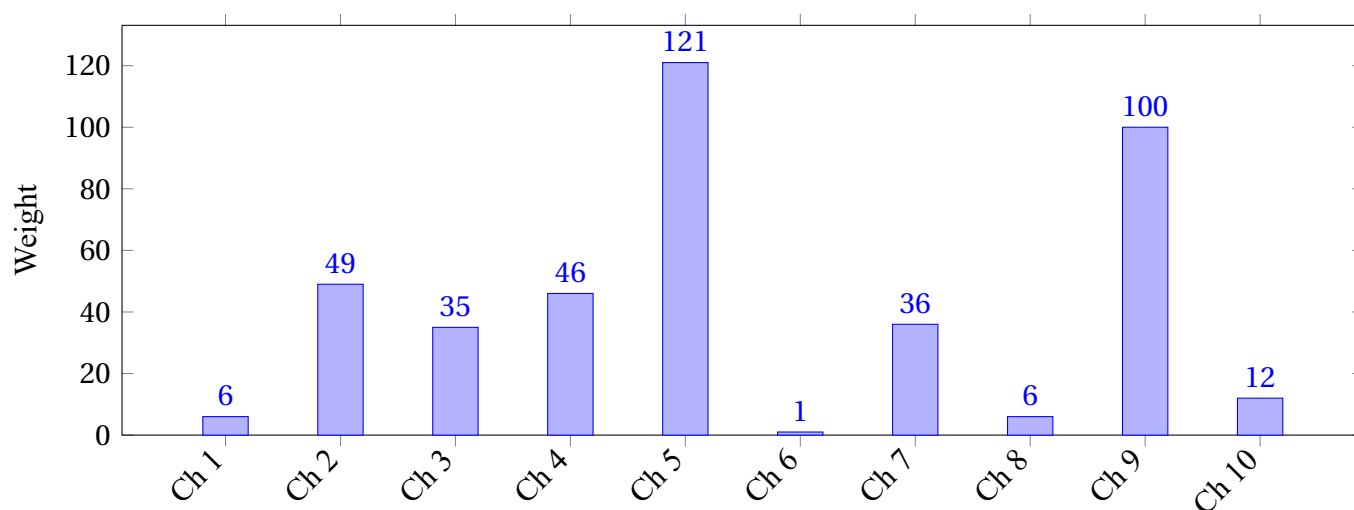
## Mark Distribution from Chapter 1 to Chapter 12



## S4 Chapters

Ch 1.	Quadratic Equations in One Unknown (I)	P.84
Ch 2.	Quadratic Equations in One Unknown (II)	P.86
Ch 3.	Functions and Graphs	P.88
Ch 4.	Equations of Straight Lines	P.90
Ch 5.	More about Polynomials	P.92
Ch 6.	Exponential Functions <b>NF</b>	P.94
Ch 7.	Logarithmic Functions <b>NF</b>	P.95
Ch 8.	More about Equations <b>NF</b>	P.97
Ch 9.	Variations	P.99
Ch 10.	More about Trigonometry	P.101

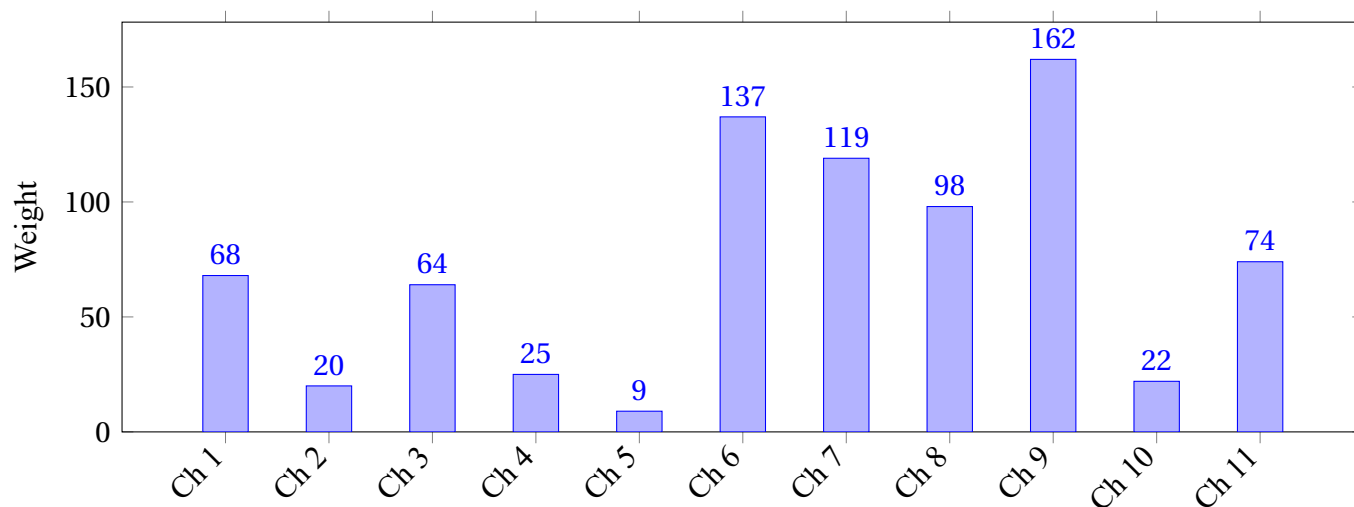
## Mark Distribution from Chapter 1 to Chapter 10



## S5 Chapters

Ch 1.	Basic Properties of Circles	P.105
Ch 2.	Tangents to Circles <b>NF</b>	P.107
Ch 3.	Inequalities	P.109
Ch 4.	Linear Programming <b>NF</b>	P.111
Ch 5.	Applications of Trigonometry in 2-D problems <b>NF</b>	P.113
Ch 6.	Applications of Trigonometry in 3-D problems <b>NF</b>	P.115
Ch 7.	Equations of Circles	P.117
Ch 8.	Locus	P.119
Ch 9.	Measures of Dispersion	P.121
Ch 10.	Permutation and Combination <b>NF</b>	P.124
Ch 11.	More about Probability <b>NF</b>	P.126

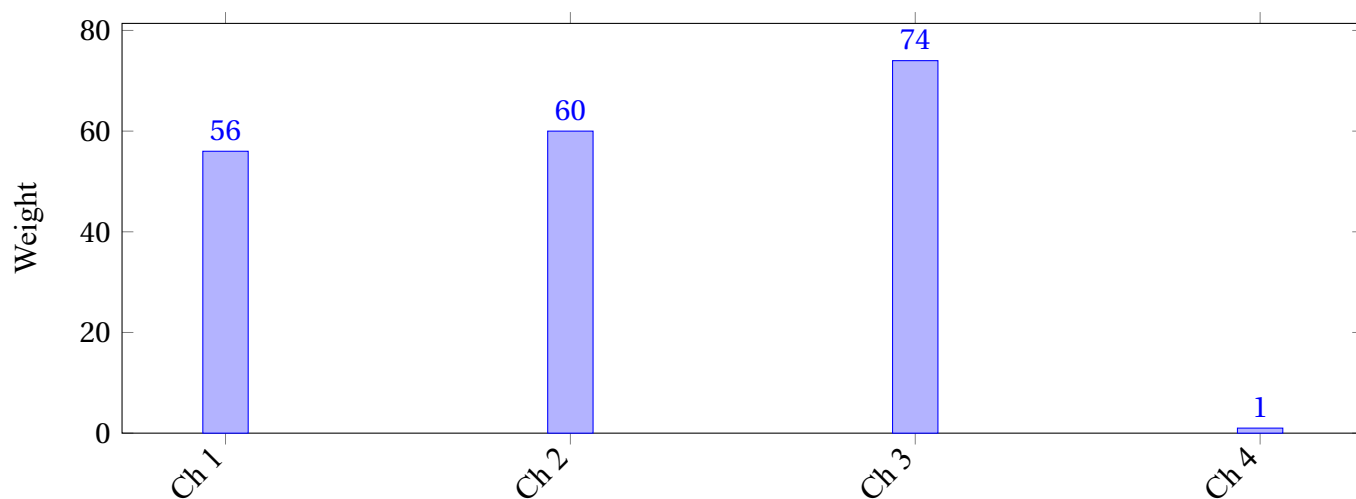
## Mark Distribution from Chapter 1 to Chapter 11



## S6 Chapters

Ch 1.	Arithmetic and Geometric Sequences	P.130
Ch 2.	Summation of Arithmetic and Geometric Sequences	NF P.132
Ch 3.	More about Graphs of Functions	P.134
Ch 4.	Uses and Abuses of Statistics	P.136

## Mark Distribution from Chapter 1 to Chapter 4

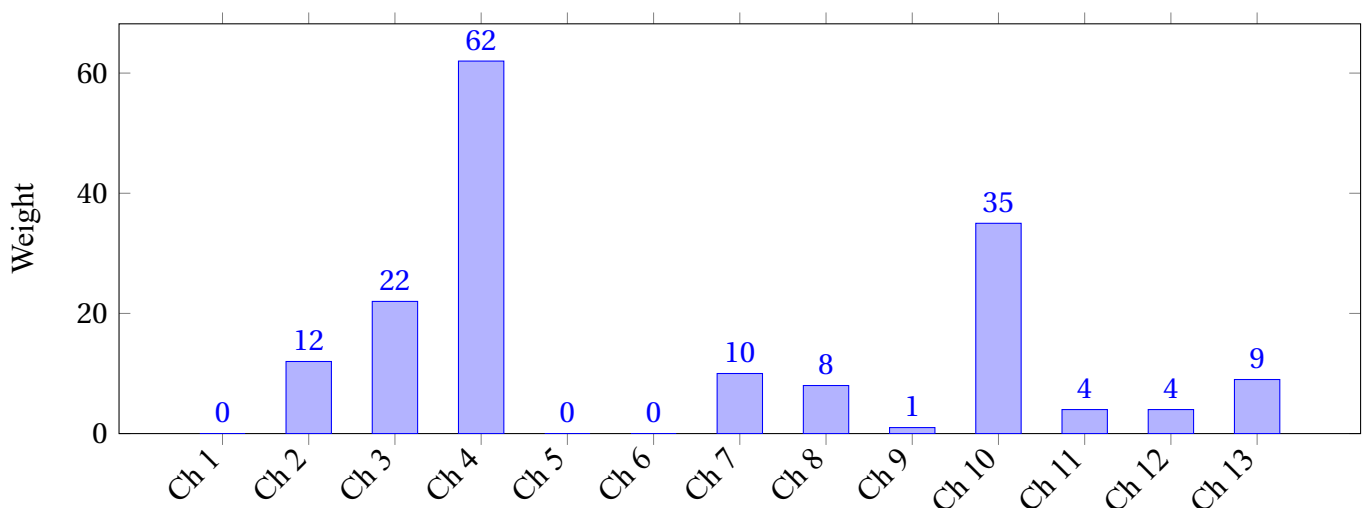


## S1 Chapters

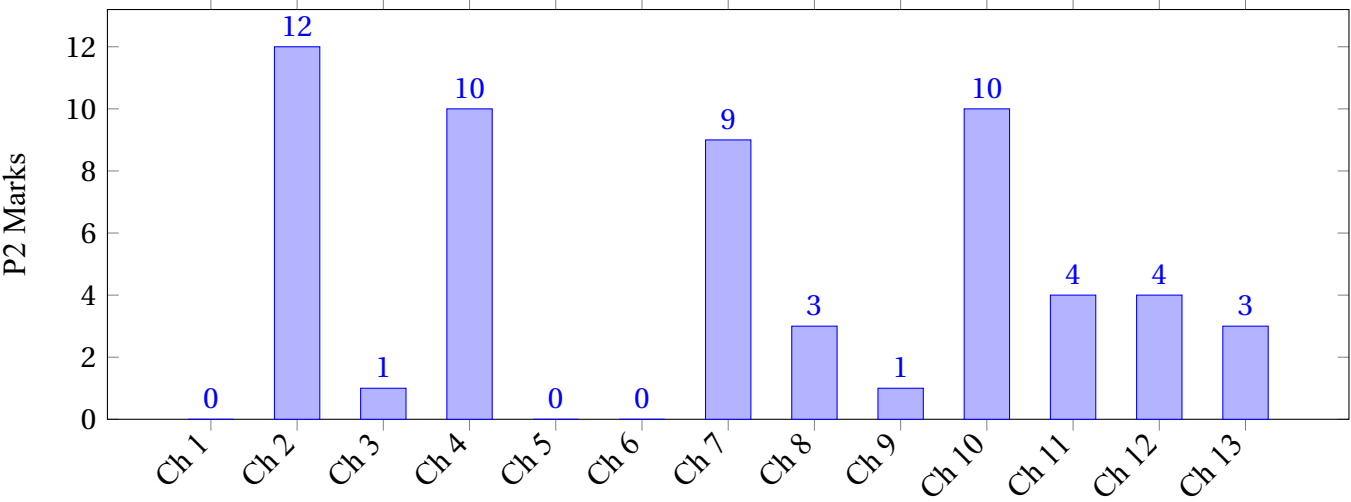
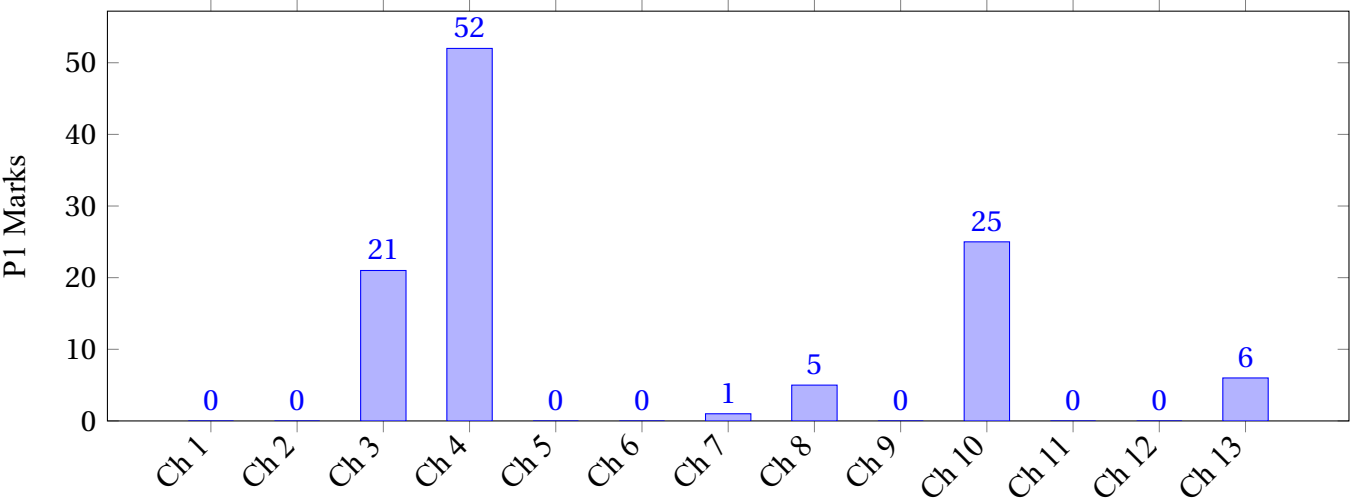
### Chapter List

Ch 1.	Directed Numbers and the Number Line	P.10
Ch 2.	Introduction to Algebra	P.12
Ch 3.	Algebraic Equations in One Unknown	P.14
Ch 4.	Percentages (I)	P.16
Ch 5.	Estimation in Numbers and Measurement	P.18
Ch 6.	Introduction to Geometry	P.19
Ch 7.	Symmetry and Transformation	P.21
Ch 8.	Areas and Volumes (I)	P.22
Ch 9.	Congruence and Similarity	P.23
Ch 10.	Introduction to Coordinates	P.25
Ch 11.	Angles related to Lines	P.27
Ch 12.	Manipulation of Simple Polynomials	P.28
Ch 13.	Introduction of Statistics and Statistical Diagrams	P.30

### Mark Distribution from Chapter 1 to Chapter 13







[illegible]

**DSE Question Table**

	1.1	1.2	1.3	1.4
Paper 1 - A(1)				
Paper 1 - A(2)				
Paper 1 - B				
Paper 2 - A				
Paper 2 - B				
Cross Topic				



**DSE Question Table**

	2.1	2.2	2.3
Paper 1 - A(1)			
Paper 1 - A(2)			
Paper 1 - B			
Paper 2 - A			Samp-P2-Q11 2012-P2-Q12 2014-P2-Q14 2015-P2-Q13 2016-P2-Q14 2017-P2-Q13 2018-P2-Q12 2019-P2-Q14 2020-P2-Q12 2021-P2-Q13 2022-P2-Q14 2023-P2-Q14
Paper 2 - B			
Cross Topic			

## Section List

### Sec 3.3 Applications of Algebraic Equations in One Unknown

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 3.1																
Sec 3.2																
Sec 3.3	4		4			4		4		2			3			

[illegible]

**DSE Question Table**

	3.1	3.2	3.3
Paper 1 - A(1)			Samp-P1-Q5 2012-P1-Q5 2015-P1-Q7 2017-P1-Q4 2022-P1-Q2
Paper 1 - A(2)			
Paper 1 - B			
Paper 2 - A			2014-P2-Q8
Paper 2 - B			
Cross Topic			2019-P1-Q7

[illegible]



**DSE Question Table**

	4.1	4.2	4.3	4.4
Paper 1 - A(1)		2012-P1-Q4 2016-P1-Q5 2020-P1-Q5	Samp-P1-Q4	Prac-P1-Q4 2014-P1-Q6 2015-P1-Q6 2018-P1-Q7 2019-P1-Q5 2021-P1-Q6 2022-P1-Q5 2024-P1-Q6
Paper 1 - A(2)				
Paper 1 - B				
Paper 2 - A	2012-P2-Q8 2021-P2-Q9 2024-P2-Q11	2014-P2-Q9	Samp-P2-Q10 Prac-P2-Q10 2013-P2-Q10 2020-P2-Q9	2023-P2-Q11
Paper 2 - B				
Cross Topic		Prac-P2-Q11 2014-P1-Q5 2017-P1-Q8		

## S1-Ch5

# Estimation in Numbers and Measurement

### Section List

Sec 5.1 Introduction to Estimation

Sec 5.2 Estimation in Measurement

#### DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 5.1																
Sec 5.2																

#### DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 5.1																
Sec 5.2																

#### DSE Question Table

	5.1	5.2
Paper 1 - A(1)		
Paper 1 - A(2)		
Paper 1 - B		
Paper 2 - A		
Paper 2 - B		
Cross Topic		

[illegible]

**DSE Question Table**

	6.1	6.2	6.3	6.4
Paper 1 - A(1)				
Paper 1 - A(2)				
Paper 1 - B				
Paper 2 - A				
Paper 2 - B				
Cross Topic				

## S1-Ch7

## Symmetry and Transformation

## Section List

Sec 7.1 Symmetry

Sec 7.2 Transformation

## DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 7.1							1									
Sec 7.2																

## DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 7.1		1	1	1		1	1		1							
Sec 7.2	1	1													1	

## DSE Question Table

	7.1	7.2
Paper 1 - A(1)		
Paper 1 - A(2)		
Paper 1 - B		
Paper 2 - A	Prac-P2-Q24 2013-P2-Q15 2016-P2-Q23 2018-P2-Q23	Samp-P2-Q25 2024-P2-Q24
Paper 2 - B		
Cross Topic	2012-P2-Q22 2015-P2-Q22 2016-P1-Q7	Prac-P2-Q25

# S1-Ch8

## Areas and Volumes (I)

### Section List

Sec 8.1 Areas of Simple Polygons

Sec 8.2 Volumes and Total Surface Areas of Prisms

#### DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 8.1																
Sec 8.2			5													

#### DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 8.1					1											
Sec 8.2							1					1				

#### DSE Question Table

	8.1	8.2
Paper 1 - A(1)		2012-P1-Q9
Paper 1 - A(2)		
Paper 1 - B		
Paper 2 - A		2016-P2-Q18 2021-P2-Q15
Paper 2 - B		
Cross Topic	2014-P2-Q15	

[illegible]

**DSE Question Table**

	9.1	9.2	9.3	9.4
Paper 1 - A(1)				
Paper 1 - A(2)				
Paper 1 - B				
Paper 2 - A			2022-P2-Q18	
Paper 2 - B				
Cross Topic				



# S1-Ch10

## Introduction to Coordinates

### Section List

Sec 10.1 Introduction to Ordered Pairs

Sec 10.2 Rectangular Coordinate System

Sec 10.3 Distance between Two Points

Sec 10.4 Areas of Plane Figures

Sec 10.5 Transformations of Points on the Coordinate Plane

Sec 10.6 Polar Coordinate System

### DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 10.1																
Sec 10.2																
Sec 10.3																
Sec 10.4																
Sec 10.5	2				3			2								
Sec 10.6		4		4			2					4	4			

### DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 10.1																
Sec 10.2																
Sec 10.3																
Sec 10.4																
Sec 10.5	1	1								1		1				
Sec 10.6			1		1	1		1	1		1					

**DSE Question Table**

	10.1	10.2	10.3	10.4	10.5	10.6
Paper 1 - A(1)						Prac-P1-Q6 2013-P1-Q6 2021-P1-Q7 2022-P1-Q7
Paper 1 - A(2)						
Paper 1 - B						
Paper 2 - A					Samp-P2-Q26 Prac-P2-Q25 2019-P2-Q25 2021-P2-Q23	2020-P2-Q24
Paper 2 - B						
Cross Topic					Samp-P1-Q8 2014-P1-Q8 2017-P1-Q6	2012-P2-Q23 2014-P2-Q23 2015-P2-Q23 2016-P1-Q7 2017-P2-Q25 2018-P2-Q24

# S1-Ch11

## Angles related to Lines

### Section List

Sec 11.1 Angles related to Intersecting Lines

Sec 11.2 Angles related to Parallel Lines

Sec 11.3 Identifying Parallel Lines

#### DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 11.1																
Sec 11.2																
Sec 11.3																

#### DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 11.1																
Sec 11.2							1				1			1	1	
Sec 11.3																

#### DSE Question Table

	11.1	11.2	11.3
Paper 1 - A(1)			
Paper 1 - A(2)			
Paper 1 - B			
Paper 2 - A		2016-P2-Q15 2020-P2-Q19 2023-P2-Q18 2024-P2-Q19	
Paper 2 - B			
Cross Topic			

S1-Ch12

# Manipulation of Simple Polynomials

## Section List

- Sec 12.1 Laws of Positive Integral Indices
- Sec 12.2 Polynomials
- Sec 12.3 Addition and Subtraction of Polynomials
- Sec 12.4 Multiplication of Polynomials

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 12.1																
Sec 12.2																
Sec 12.3																
Sec 12.4																

DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 12.1																
Sec 12.2																
Sec 12.3																
Sec 12.4		1				1				1		1				

**DSE Question Table**

	12.1	12.2	12.3	12.4
Paper 1 - A(1)				
Paper 1 - A(2)				
Paper 1 - B				
Paper 2 - A				Prac-P2-Q1 2015-P2-Q1 2019-P2-Q1 2021-P2-Q3
Paper 2 - B				
Cross Topic				

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**DSE Question Table**

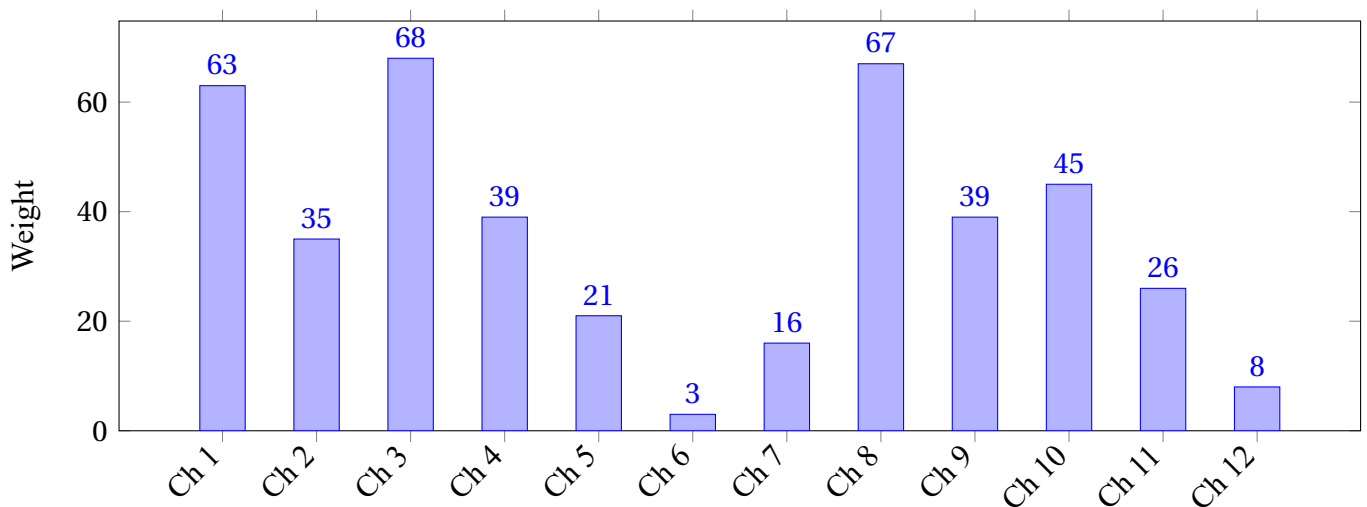
	13.1	13.2	13.3	13.4	13.5
Paper 1 - A(1)		Samp-P1-Q9			
Paper 1 - A(2)					
Paper 1 - B					
Paper 2 - A		2013-P2-Q30 2014-P2-Q29			
Paper 2 - B					
Cross Topic		2017-P1-Q7		2013-P2-Q28	

## S2 Chapters

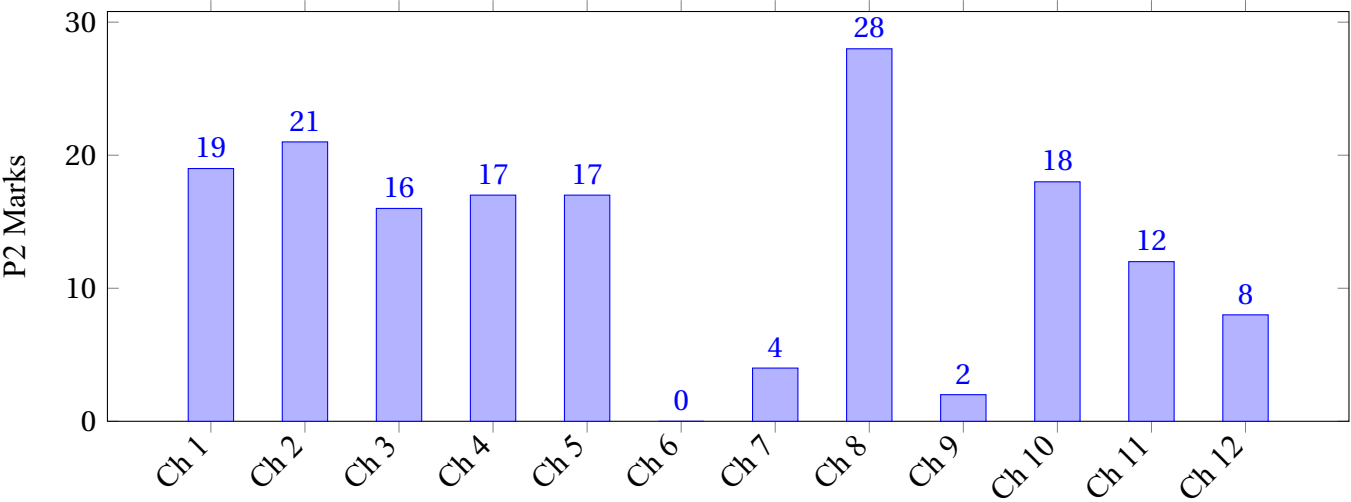
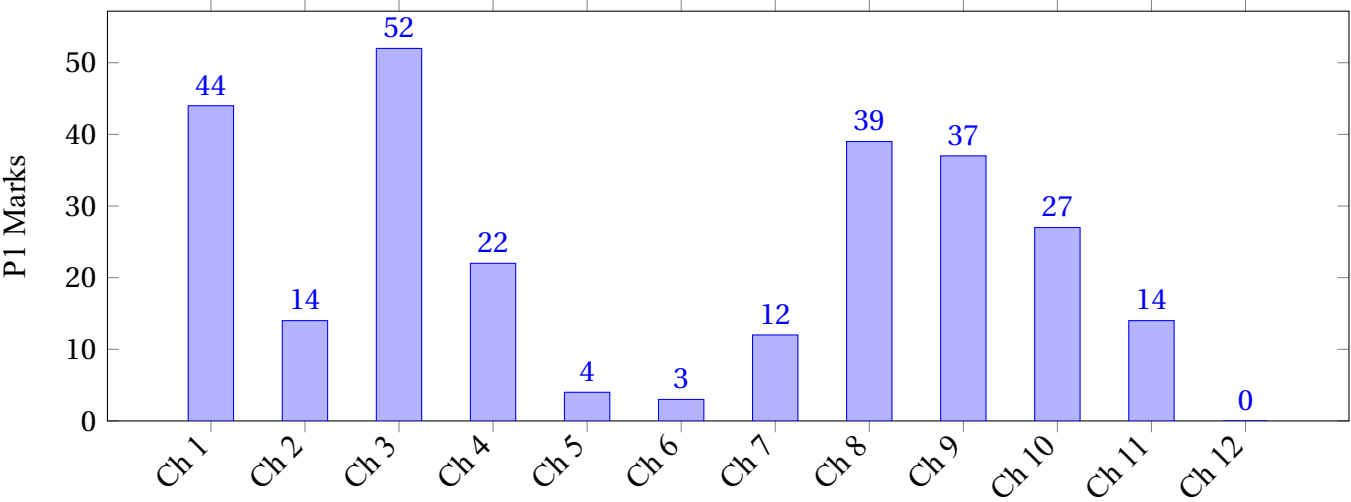
### Chapter List

Ch 1.	Rate and Ratio	P.34
Ch 2.	Identities and Factorization	P.36
Ch 3.	Algebraic Fractions and Formulas	P.38
Ch 4.	Approximation and Errors	P.40
Ch 5.	Angles related to Rectilinear Figures	P.42
Ch 6.	More about Statistical Diagrams	P.44
Ch 7.	Linear Equations in Two Unknowns	P.46
Ch 8.	Laws of Integral Indices	P.48
Ch 9.	Introduction to Deductive Geometry	P.50
Ch 10.	Pythagoras' Theorem and Irrational Numbers	P.52
Ch 11.	Areas and Volumes (II)	P.54
Ch 12.	Trigonometric Ratios	P.56

### Mark Distribution from Chapter 1 to Chapter 12







## S2-Ch1

# Rate and Ratio

---

## Section List

- Sec 1.1 Rates
- Sec 1.2 Ratios
- Sec 1.3 Applications of Ratios

### DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 1.1	7	7			6				5							
Sec 1.2		4								4	3			4	4	
Sec 1.3																

### DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 1.1			1				1								1	
Sec 1.2	1	1	1	1	1	1	1		1	1		2	1			
Sec 1.3				1				1			1			1		

**DSE Question Table**

	1.1	1.2	1.3
Paper 1 - A(1)	2018-P1-Q9	Prac-P1-Q5 2019-P1-Q7 2020-P1-Q4 2023-P1-Q6 2024-P1-Q5	
Paper 1 - A(2)	Samp-P1-Q12 Prac-P1-Q12 2014-P1-Q10		
Paper 1 - B			
Paper 2 - A	2012-P2-Q11 2016-P2-Q13 2024-P2-Q12	Samp-P2-Q13 Prac-P2-Q12 2012-P2-Q9 2014-P2-Q12 2015-P2-Q11 2016-P2-Q11 2018-P2-Q10 2019-P2-Q12 2021-P2-Q6 2021-P2-Q11 2022-P2-Q12	2013-P2-Q12 2017-P2-Q11 2020-P2-Q10 2023-P2-Q12
Paper 2 - B			
Cross Topic		2013-P2-Q8	

## S2-Ch2

# Identities and Factorization

### Section List

- Sec 2.1 Meaning of Identities
- Sec 2.2 Some Important Algebraic Identities
- Sec 2.3 Factorization of Simple Algebraic Expressions

#### DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 2.1																
Sec 2.2																
Sec 2.3			3	3		4			4							

#### DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 2.1	1	1	1	1	1	1		1		1			1	1	2	
Sec 2.2															1	
Sec 2.3	1	1	1	1	1		1				1		1			

**DSE Question Table**

	2.1	2.2	2.3
Paper 1 - A(1)			2012-P1-Q3 2013-P1-Q3 2015-P1-Q4 2018-P1-Q5
Paper 1 - A(2)			
Paper 1 - B			
Paper 2 - A	Samp-P2-Q4 Prac-P2-Q4 2012-P2-Q3 2013-P2-Q8 2014-P2-Q3 2015-P2-Q5 2017-P2-Q8 2019-P2-Q4 2022-P2-Q3 2023-P2-Q5 2024-P2-Q6 2024-P2-Q7	2024-P2-Q1	Samp-P2-Q3 Prac-P2-Q3 2012-P2-Q2 2013-P2-Q3 2014-P2-Q2 2016-P2-Q3 2020-P2-Q4 2022-P2-Q1
Paper 2 - B			
Cross Topic			

[illegible]

**DSE Question Table**

	3.1	3.2	3.3
Paper 1 - A(1)	2016-P1-Q3 2019-P1-Q2 2022-P1-Q3 2024-P1-Q1		Samp-P1-Q2 Prac-P1-Q2 2012-P1-Q2 2013-P1-Q2 2014-P1-Q5 2015-P1-Q2 2016-P1-Q2 2017-P1-Q1 2018-P1-Q1 2019-P1-Q1 2021-P1-Q2 2023-P1-Q1 2024-P1-Q2
Paper 1 - A(2)			
Paper 1 - B			
Paper 2 - A	2018-P2-Q4 2020-P2-Q3 2021-P2-Q4 2023-P2-Q2		Samp-P2-Q2 Prac-P2-Q2 2013-P2-Q2 2016-P2-Q2 2017-P2-Q3 2018-P2-Q2 2019-P2-Q5 2020-P2-Q2 2021-P2-Q2 2022-P2-Q5 2023-P2-Q1 2024-P2-Q3
Paper 2 - B			
Cross Topic			

S2-Ch4

Approximation and Errors

Section List

Sec 4.1 Significant Figures

Sec 4.2 Errors

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 4.1					3				3		3					
Sec 4.2				5				5						3		

DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 4.1		1	1	1		1	1	1		1				1	1	
Sec 4.2	1		1		1	1			1		1	1	1			



**DSE Question Table**

	4.1	4.2
Paper 1 - A(1)	2014-P1-Q3 2018-P1-Q3 2020-P1-Q3	2013-P1-Q8 2017-P1-Q9 2023-P1-Q3
Paper 1 - A(2)		
Paper 1 - B		
Paper 2 - A	Prac-P2-Q14 2012-P2-Q13 2013-P2-Q4 2015-P2-Q4 2016-P2-Q4 2017-P2-Q4 2019-P2-Q6 2023-P2-Q7 2024-P2-Q4	Samp-P2-Q15 2012-P2-Q14 2014-P2-Q11 2015-P2-Q14 2018-P2-Q14 2020-P2-Q14 2021-P2-Q5 2022-P2-Q6
Paper 2 - B		
Cross Topic		

[illegible]

**DSE Question Table**

	5.1	5.2	5.3	5.4
Paper 1 - A(1)		2016-P1-Q7		
Paper 1 - A(2)				
Paper 1 - B				
Paper 2 - A		Prac-P2-Q19 2017-P2-Q17 2017-P2-Q18 2019-P2-Q17 2020-P2-Q20 2021-P2-Q18 2022-P2-Q19	2012-P2-Q22 2013-P2-Q21 2014-P2-Q22 2015-P2-Q22 2016-P2-Q24 2018-P2-Q19 2021-P2-Q21 2022-P2-Q20 2023-P2-Q20 2024-P2-Q20	
Paper 2 - B				
Cross Topic				

[illegible]

**DSE Question Table**

	6.1	6.2	6.3	6.4	6.5
Paper 1 - A(1)					
Paper 1 - A(2)					
Paper 1 - B					
Paper 2 - A					
Paper 2 - B					
Cross Topic			2016-P1-Q9		

[illegible]

**DSE Question Table**

	7.1	7.2	7.3	7.4
Paper 1 - A(1)				2013-P1-Q4 2021-P1-Q5 2023-P1-Q5
Paper 1 - A(2)				
Paper 1 - B				
Paper 2 - A			2012-P2-Q5 2015-P2-Q3 2016-P2-Q5 2019-P2-Q3	
Paper 2 - B				
Cross Topic				

# S2-Ch8

## Laws of Integral Indices

### Section List

Sec 8.1 Laws of Positive Integral Indices

Sec 8.2 Zero and Negative Integral Indices

Sec 8.3 Scientific Notation

Sec 8.4 Different Numeral Systems **NF**

#### DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 8.1				3												
Sec 8.2	3	3	3		3	3	3	3	3		3	3	3	3		
Sec 8.3																
Sec 8.4																

#### DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 8.1	1		1	1		1	1	1	1	1		1	1			
Sec 8.2					1						1			1	1	
Sec 8.3																
Sec 8.4	1	1	1	1	1	1	1	1		1	1	1	1	1	1	



**DSE Question Table**

	8.1	8.2	8.3	8.4
Paper 1 - A(1)	2013-P1-Q1	Samp-P1-Q1 Prac-P1-Q1 2012-P1-Q1 2014-P1-Q1 2015-P1-Q1 2016-P1-Q1 2017-P1-Q2 2018-P1-Q2 2020-P1-Q1 2021-P1-Q1 2022-P1-Q1 2023-P1-Q2		
Paper 1 - A(2)				
Paper 1 - B				
Paper 2 - A	Samp-P2-Q1 2012-P2-Q1 2013-P2-Q1 2015-P2-Q2 2016-P2-Q1 2017-P2-Q2 2018-P2-Q1 2019-P2-Q2 2021-P2-Q1 2022-P2-Q2	2014-P2-Q1 2020-P2-Q1 2023-P2-Q3 2024-P2-Q2		
Paper 2 - B				Samp-P2-Q33 Prac-P2-Q32 2012-P2-Q33 2013-P2-Q33 2014-P2-Q34 2015-P2-Q33 2016-P2-Q33 2017-P2-Q32 2019-P2-Q33 2020-P2-Q31 2021-P2-Q32 2022-P2-Q34 2023-P2-Q31 2024-P2-Q32
Cross Topic				

[illegible]

DSE Question Table

	9.1	9.2	9.3	9.4	9.5
Paper 1 - A(1)			2013-P1-Q7 2020-P1-Q8 2022-P1-Q8 2024-P1-Q8	2021-P1-Q8 2023-P1-Q8	
Paper 1 - A(2)					
Paper 1 - B					
Paper 2 - A				2021-P2-Q19 2021-P2-Q20	
Paper 2 - B					
Cross Topic				Samp-P1-Q19 2018-P1-Q13 2019-P1-Q14	

# Pythagoras' Theorem and Irrational Numbers

Sec 10.1 Square Roots and Surds

Sec 10.2 Pythagoras' Theorem and its Proofs

Sec 10.3 Converse of Pythagoras' Theorem

Sec 10.4 Applications of Pythagoras' Theorem and its Converse

Sec 10.5 Rational Numbers and Irrational Numbers

Sec 10.6 Manipulations of Surds **NF**

[illegible][illegible]

**DSE Question Table**

	10.1	10.2	10.3	10.4	10.5	10.6
Paper 1 - A(1)			2014-P1-Q9	2024-P1-Q7		
Paper 1 - A(2)		2018-P1-Q13	2016-P1-Q13			
Paper 1 - B						
Paper 2 - A		Samp-P2-Q20 Prac-P2-Q18 2012-P2-Q15 2012-P2-Q23 2014-P2-Q15 2014-P2-Q23 2015-P2-Q15 2015-P2-Q23 2017-P2-Q14 2017-P2-Q19 2018-P2-Q15 2018-P2-Q24 2019-P2-Q19	2016-P2-Q16 2020-P2-Q21	2024-P2-Q18		
Paper 2 - B						
Cross Topic		Prac-P2-Q16 2012-P2-Q21 2019-P1-Q3				

## S2-Ch11

# Areas and Volumes (II)

---

## Section List

Sec 11.1 Circumferences and Areas of Circles

Sec 11.2 Lengths of Arcs and Areas of Sectors

Sec 11.3 Cylinders

### DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 11.1																
Sec 11.2						5										
Sec 11.3				3			2		4							

### DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 11.1		1														
Sec 11.2		1	2	1	1		1					1			1	
Sec 11.3	1							1						1		

**DSE Question Table**

	11.1	11.2	11.3
Paper 1 - A(1)		2015-P1-Q9	
Paper 1 - A(2)			
Paper 1 - B			
Paper 2 - A	Prac-P2-Q11	Prac-P2-Q15 2012-P2-Q16 2012-P2-Q21 2014-P2-Q10 2016-P2-Q19 2021-P2-Q17 2024-P2-Q15	2023-P2-Q15
Paper 2 - B			
Cross Topic		2013-P2-Q16	Samp-P2-Q17 2013-P1-Q13 2016-P1-Q11 2017-P2-Q15 2018-P1-Q14

S2-Ch12

Trigonometric Ratios

Section List

- Sec 12.1 Introduction to Trigonometric Ratios
- Sec 12.2 Sine Ratio
- Sec 12.3 Cosine Ratio
- Sec 12.4 Tangent Ratio
- Sec 12.5 Simple Applications of Trigonometric Ratios

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 12.1																
Sec 12.2																
Sec 12.3																
Sec 12.4																
Sec 12.5																

DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 12.1																
Sec 12.2																
Sec 12.3																
Sec 12.4																
Sec 12.5			1		1	1	1	1	1	1		1				



**DSE Question Table**

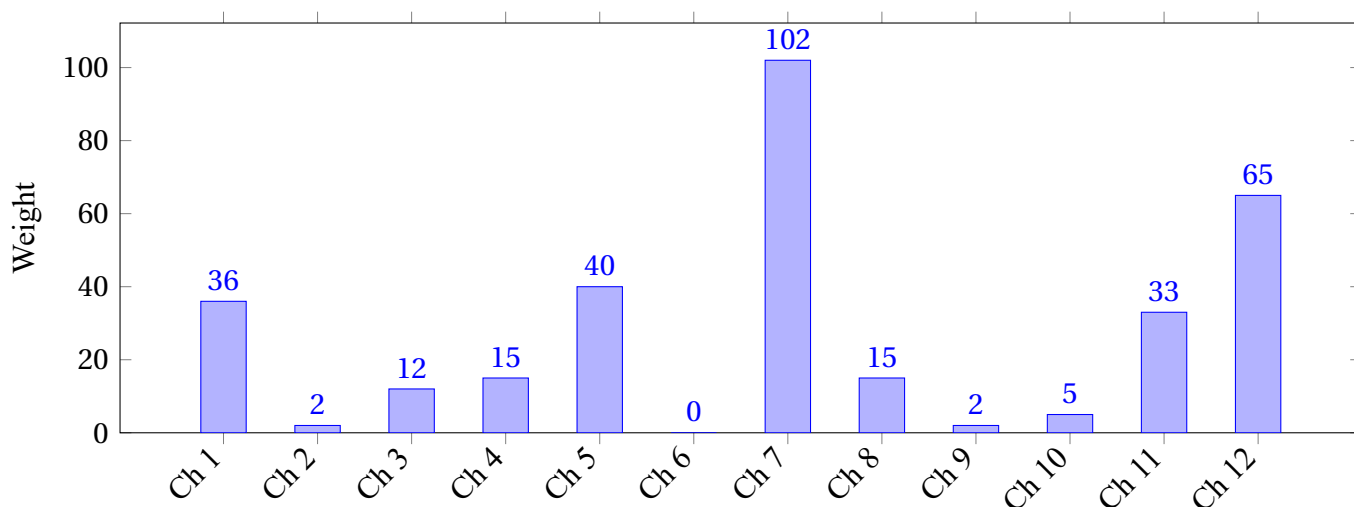
	12.1	12.2	12.3	12.4	12.5
Paper 1 - A(1)					
Paper 1 - A(2)					
Paper 1 - B					
Paper 2 - A					2012-P2-Q18 2014-P2-Q18 2015-P2-Q18 2016-P2-Q21 2017-P2-Q22 2018-P2-Q21 2019-P2-Q22 2021-P2-Q24
Paper 2 - B					
Cross Topic					

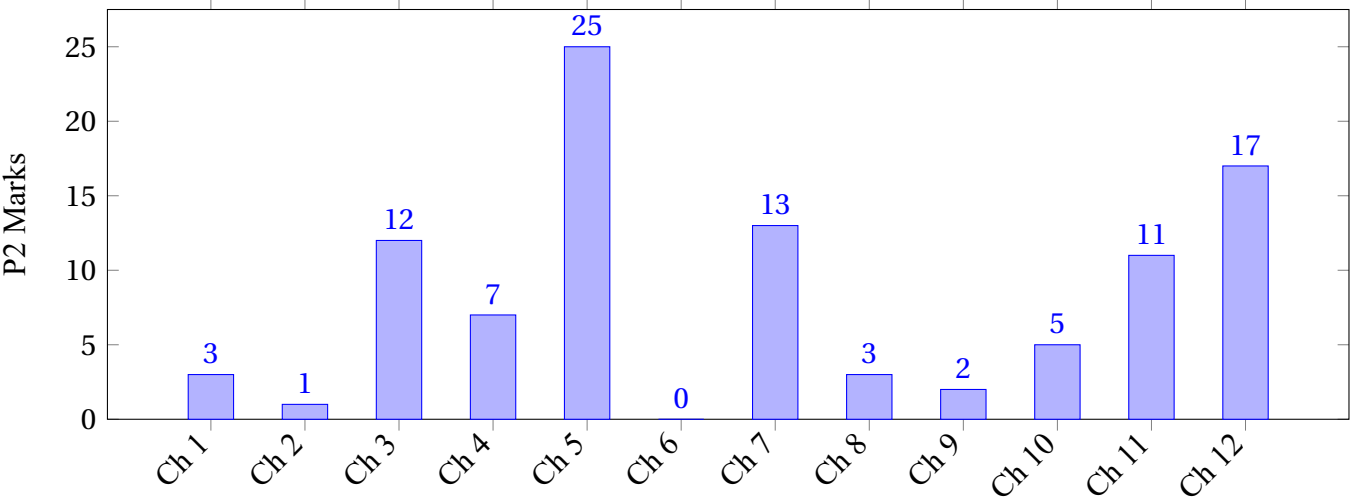
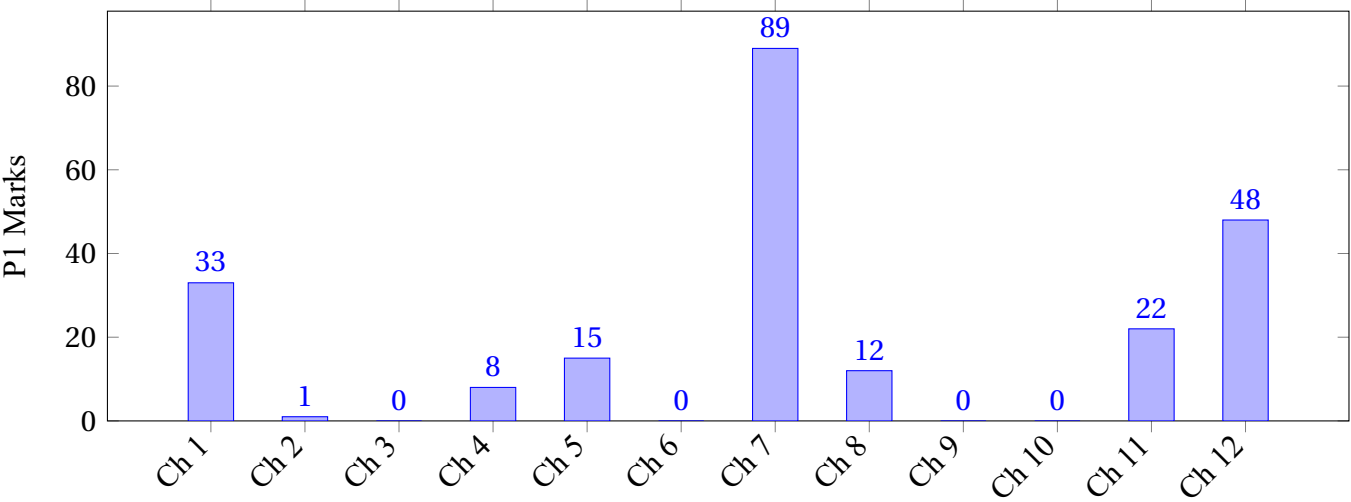
## S3 Chapters

### Chapter List

Ch 1.	More about Factorization of Polynomials	P.60
Ch 2.	Linear Inequalities in One Unknown	P.62
Ch 3.	Percentages (II)	P.63
Ch 4.	Special Lines and Centres in a Triangle	P.65
Ch 5.	Quadrilaterals	P.67
Ch 6.	More about 3-D Figures	P.69
Ch 7.	Areas and Volumes (III)	P.71
Ch 8.	Coordinate Geometry of Straight Lines	P.73
Ch 9.	Trigonometric Relations	P.75
Ch 10.	Applications of Trigonometry	P.76
Ch 11.	Measures of Central Tendency	P.78
Ch 12.	Introduction to Probability	P.80

### Mark Distribution from Chapter 1 to Chapter 12





## Section List

Sec 1.2 Sum and Difference of Two Cubes NF[illegible][illegible]

**DSE Question Table**

	1.1	1.2
Paper 1 - A(1)	Samp-P1-Q3 Prac-P1-Q3 2014-P1-Q2 2016-P1-Q4 2017-P1-Q3 2019-P1-Q4 2020-P1-Q2 2021-P1-Q3 2022-P1-Q4 2024-P1-Q3	
Paper 1 - A(2)		
Paper 1 - B		
Paper 2 - A	2017-P2-Q1 2018-P2-Q3 2023-P2-Q4	
Paper 2 - B		
Cross Topic		

## S3-Ch2

# Linear Inequalities in One Unknown

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## Section List

Sec 2.1 Concepts of Inequalities

Sec 2.2 Basic Properties of Inequalities

Sec 2.3 Linear Inequalities in One Unknown

### DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 2.1																
Sec 2.2																
Sec 2.3					1											

### DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 2.1																
Sec 2.2					1											
Sec 2.3																

### DSE Question Table

	2.1	2.2	2.3
Paper 1 - A(1)			
Paper 1 - A(2)			
Paper 1 - B			
Paper 2 - A		2014-P2-Q6	
Paper 2 - B			
Cross Topic			2014-P1-Q16

## Section List

## Sec 3.4 Taxation

[illegible][illegible]

**DSE Question Table**

	3.1	3.2	3.3	3.4
Paper 1 - A(1)				
Paper 1 - A(2)				
Paper 1 - B				
Paper 2 - A	Samp-P2-Q12 2015-P2-Q9 2016-P2-Q10 2020-P2-Q15		2013-P2-Q11 2015-P2-Q10 2017-P2-Q10 2018-P2-Q9 2019-P2-Q11 2022-P2-Q11	
Paper 2 - B			Samp-P2-Q39	
Cross Topic	2014-P2-Q10			



[illegible]

**DSE Question Table**

	4.1	4.2	4.3
Paper 1 - A(1)			
Paper 1 - A(2)			
Paper 1 - B			
Paper 2 - A			
Paper 2 - B		2019-P2-Q41 2024-P2-Q41	
Cross Topic		Samp-P1-Q19 Prac-P2-Q42 2013-P2-Q43 2015-P2-Q42 2016-P1-Q20 2017-P2-Q41 2018-P2-Q40	

## S3-Ch5

# Quadrilaterals

## Section List

Sec 5.1 Basic Terms of a Quadrilateral

Sec 5.2 Parallelograms

Sec 5.3 Properties of Some Other Special Quadrilaterals

Sec 5.4 Geometric Proofs Related to Parallelograms **NF**

Sec 5.5 Mid-point Theorem and Intercept Theorem **NF**

### DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 5.1																
Sec 5.2																
Sec 5.3						7				8						
Sec 5.4																
Sec 5.5																

### DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 5.1																
Sec 5.2	1		1			1	1	2	1	1						
Sec 5.3		2		1	2		1		2	1				2	1	
Sec 5.4														1	1	
Sec 5.5	1									1	1					

**DSE Question Table**

	5.1	5.2	5.3	5.4	5.5
Paper 1 - A(1)					
Paper 1 - A(2)			2015-P1-Q13 2019-P1-Q14		
Paper 1 - B					
Paper 2 - A		Samp-P2-Q18 2012-P2-Q17 2015-P2-Q17 2016-P2-Q17 2017-P2-Q16 2017-P2-Q20 2018-P2-Q16 2019-P2-Q16	Prac-P2-Q17 Prac-P2-Q22 2013-P2-Q18 2014-P2-Q16 2014-P2-Q17 2016-P2-Q20 2018-P2-Q18 2018-P2-Q20 2019-P2-Q20 2023-P2-Q17 2023-P2-Q19 2024-P2-Q17	2023-P2-Q21 2024-P2-Q21	Samp-P2-Q23 2019-P2-Q18 2020-P2-Q18
Paper 2 - B					
Cross Topic					

[illegible]

**DSE Question Table**

	6.1	6.2	6.3	6.4
Paper 1 - A(1)				
Paper 1 - A(2)				
Paper 1 - B				
Paper 2 - A				
Paper 2 - B				
Cross Topic				

## S3-Ch7

## Areas and Volumes (III)

## Section List

Sec 7.1 Pyramids

Sec 7.2 Circular Cones

Sec 7.3 Frustums

Sec 7.4 Spheres

Sec 7.5 Formulas for Lengths, Areas and Volumes

Sec 7.6 Similar Shapes

## DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 7.1																
Sec 7.2																
Sec 7.3					8											
Sec 7.4	4		7						9	5						
Sec 7.5																
Sec 7.6				7			6	7			6	8	7	8	7	

## DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 7.1				1						1						
Sec 7.2		1						1			1				1	
Sec 7.3						1										
Sec 7.4	1			1									1			
Sec 7.5																
Sec 7.6											1	1	1			

**DSE Question Table**

	7.1	7.2	7.3	7.4	7.5	7.6
Paper 1 - A(1)				Samp-P1-Q6 2019-P1-Q9		
Paper 1 - A(2)			2014-P1-Q14	2012-P1-Q12 2018-P1-Q14		2013-P1-Q13 2016-P1-Q11 2017-P1-Q12 2020-P1-Q12 2021-P1-Q14 2022-P1-Q13 2023-P1-Q14 2024-P1-Q13
Paper 1 - B						
Paper 2 - A	2019-P2-Q15	Prac-P2-Q16 2017-P2-Q15 2020-P2-Q16 2024-P2-Q16	2015-P2-Q16	Samp-P2-Q17 2013-P2-Q17 2022-P2-Q15		2020-P2-Q17 2021-P2-Q16 2022-P2-Q22
Paper 2 - B	2013-P2-Q40					
Cross Topic						



[illegible]

**DSE Question Table**

	8.1	8.2	8.3	8.4	8.5
Paper 1 - A(1)			Samp-P1-Q8 2014-P1-Q8 2017-P1-Q6		
Paper 1 - A(2)					
Paper 1 - B					
Paper 2 - A					
Paper 2 - B			Prac-P2-Q42 2013-P2-Q43 2015-P2-Q42		
Cross Topic					

# S3-Ch9

## Trigonometric Relations

### Section List

Sec 9.1 Trigonometric Ratios of Special Angles

Sec 9.2 Finding Trigonometric Ratios by Constructing Right-Angled Triangles

Sec 9.3 Trigonometric Identities

#### DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 9.1																
Sec 9.2																
Sec 9.3																

#### DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 9.1														1		
Sec 9.2																
Sec 9.3				1												

#### DSE Question Table

	9.1	9.2	9.3
Paper 1 - A(1)			
Paper 1 - A(2)			
Paper 1 - B			
Paper 2 - A	2023-P2-Q23		2013-P2-Q23
Paper 2 - B			
Cross Topic			

S3-Ch10

# Applications of Trigonometry

## Section List

- Sec 10.1 Gradient and Inclination
- Sec 10.2 Angles of Elevation and Depression
- Sec 10.3 Bearings
- Sec 10.4 Applications of Trigonometry to Rectilinear Figures

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 10.1																
Sec 10.2																
Sec 10.3																
Sec 10.4																

DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 10.1																
Sec 10.2																
Sec 10.3				1							1					
Sec 10.4				1									1		1	

DSE Question Table

	10.1	10.2	10.3	10.4
Paper 1 - A(1)				
Paper 1 - A(2)				
Paper 1 - B				
Paper 2 - A			2013-P2-Q20 2020-P2-Q23	2013-P2-Q16 2022-P2-Q23 2024-P2-Q23
Paper 2 - B				
Cross Topic				

## Section List

## Sec 11.8 Weighted Mean

[illegible]

**DSE Core Paper 2**

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 11.1																
Sec 11.2					1				1			1		1		
Sec 11.3	1		1													
Sec 11.4				1		1	1									
Sec 11.5											1					
Sec 11.6																
Sec 11.7																
Sec 11.8													1			

**DSE Question Table**

	11.1	11.2	11.3	11.4	11.5	11.6	11.7	
Paper 1 - A(1)								
Paper 1 - A(2)				2018-P1-Q11	2012-P1-Q10		2021-P1-Q11	
Paper 1 - B								
Paper 2 - A		2014-P2-Q28 2018-P2-Q29 2021-P2-Q30 2023-P2-Q30	Samp-P2-Q28 2012-P2-Q30	2013-P2-Q27 2015-P2-Q30 2016-P2-Q30	2020-P2-Q30			2022
Paper 2 - B								
Cross Topic				2019-P1-Q8				





**DSE Question Table**

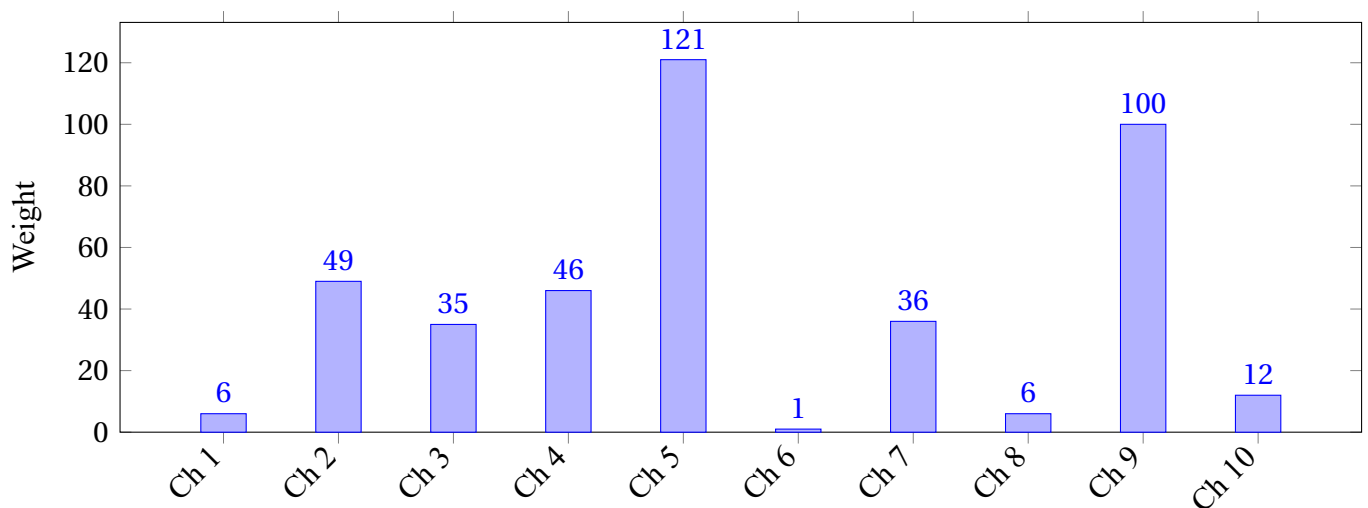
	12.1	12.2	12.3	12.4
Paper 1 - A(1)	2017-P1-Q7 2018-P1-Q4 2019-P1-Q8	2015-P1-Q3 2016-P1-Q9 2022-P1-Q9 2023-P1-Q9 2024-P1-Q9		
Paper 1 - A(2)	Prac-P1-Q13	2013-P1-Q10		
Paper 1 - B				
Paper 2 - A	2012-P2-Q28 2014-P2-Q27 2015-P2-Q28 2017-P2-Q28 2022-P2-Q28	Prac-P2-Q28 2012-P2-Q27 2013-P2-Q26 2016-P2-Q28 2018-P2-Q28 2019-P2-Q28 2020-P2-Q28 2021-P2-Q28 2023-P2-Q28 2024-P2-Q28		2015-P2-Q27 2016-P2-Q29
Paper 2 - B				
Cross Topic				

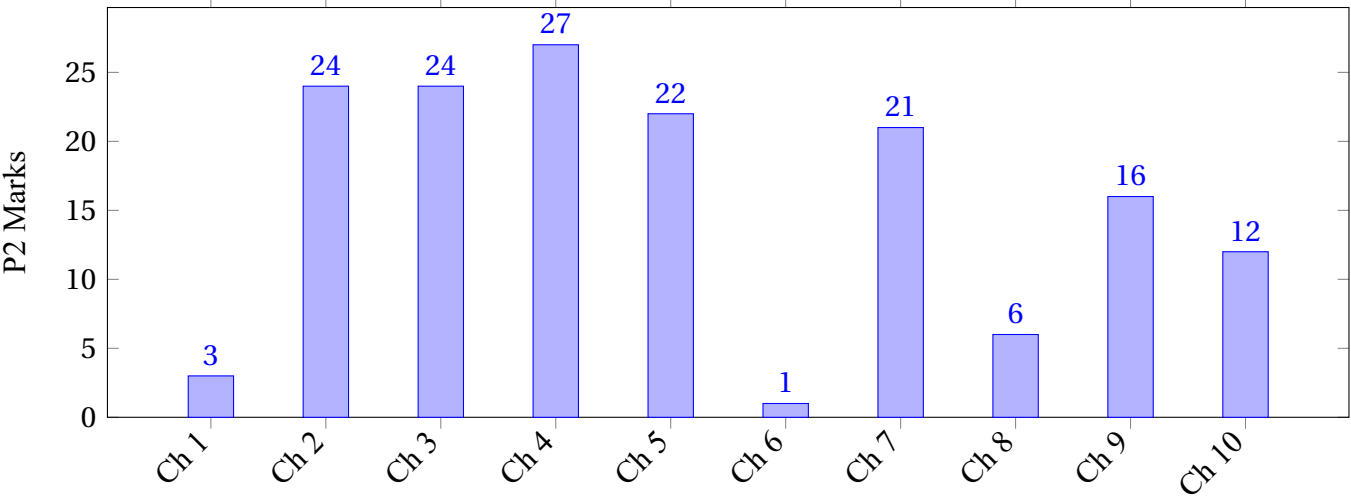
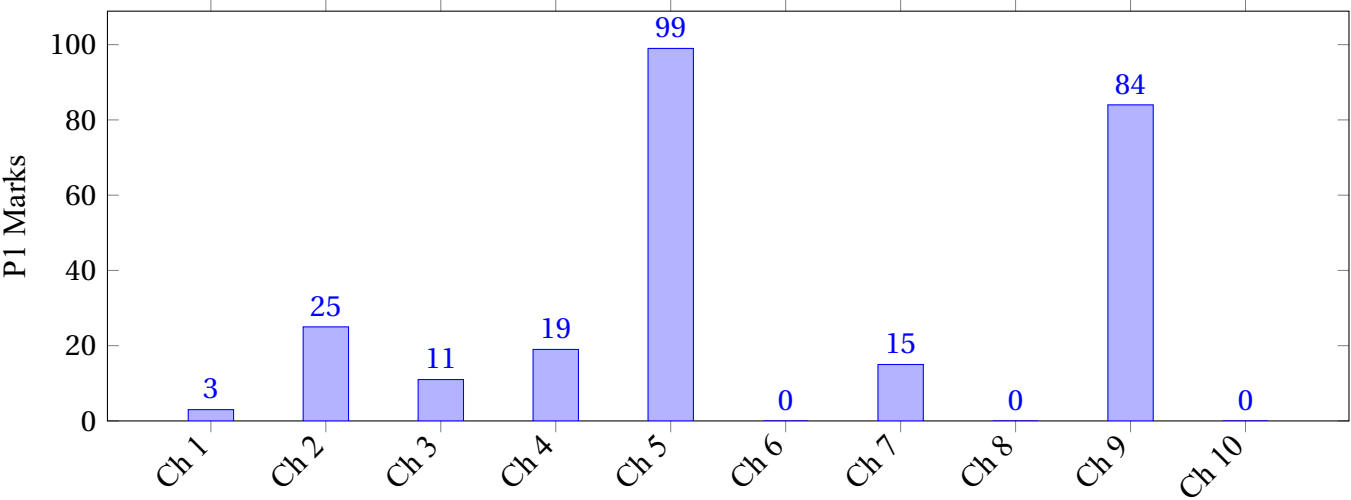
## S4 Chapters

### Chapter List

Ch 1.	Quadratic Equations in One Unknown (I)	P.84
Ch 2.	Quadratic Equations in One Unknown (II)	P.86
Ch 3.	Functions and Graphs	P.88
Ch 4.	Equations of Straight Lines	P.90
Ch 5.	More about Polynomials	P.92
Ch 6.	Exponential Functions <small>NF</small>	P.94
Ch 7.	Logarithmic Functions <small>NF</small>	P.95
Ch 8.	More about Equations <small>NF</small>	P.97
Ch 9.	Variations	P.99
Ch 10.	More about Trigonometry	P.101

### Mark Distribution from Chapter 1 to Chapter 10





[illegible]

**DSE Question Table**

	1.1	1.2	1.3	1.4	1.5
Paper 1 - A(1)					2019-P1-Q3
Paper 1 - A(2)					
Paper 1 - B					
Paper 2 - A		Samp-P2-Q6 2013-P2-Q6 2022-P2-Q4			
Paper 2 - B					
Cross Topic					

[illegible]

**DSE Question Table**

	2.1	2.2	2.3	2.4
Paper 1 - A(1)	2020-P1-Q7			
Paper 1 - A(2)				
Paper 1 - B			2017-P1-Q18 2023-P1-Q16	Prac-P1-Q17
Paper 2 - A	Samp-P2-Q7 Prac-P2-Q6 2014-P2-Q4 2015-P2-Q7 2016-P2-Q8			
Paper 2 - B			Prac-P2-Q33 2013-P2-Q35 2015-P2-Q34 2018-P2-Q36	Samp-P2-Q34 Prac-P2-Q34 2012-P2-Q35 2013-P2-Q36 2014-P2-Q36 2015-P2-Q35 2016-P2-Q34 2017-P2-Q35 2018-P2-Q37 2019-P2-Q34 2020-P2-Q37 2021-P2-Q35 2022-P2-Q35 2023-P2-Q34 2024-P2-Q35
Cross Topic				

[illegible]



**DSE Question Table**

	3.1	3.2	3.3	3.4
Paper 1 - A(1)				
Paper 1 - A(2)				
Paper 1 - B				2013-P1-Q17 2022-P1-Q16
Paper 2 - A		2017-P2-Q6 2018-P2-Q7 2019-P2-Q8 2020-P2-Q5 2021-P2-Q7 2022-P2-Q8 2023-P2-Q8 2024-P2-Q8		Prac-P2-Q8 2012-P2-Q6 2013-P2-Q7 2014-P2-Q5 2015-P2-Q8 2016-P2-Q9 2017-P2-Q9 2018-P2-Q5 2019-P2-Q10 2020-P2-Q7 2021-P2-Q14 2022-P2-Q10 2023-P2-Q10 2024-P2-Q14
Paper 2 - B				2012-P2-Q34 2014-P2-Q35
Cross Topic				

# S4-Ch4

## Equations of Straight Lines

### Section List

Sec 4.1 Equations of Straight Lines

Sec 4.2 General Form of Equation of a Straight Line

Sec 4.3 Possible Intersection of Straight Lines

#### DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 4.1																
Sec 4.2														12		
Sec 4.3															7	

#### DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 4.1		1	1	1	1	1		3		1	1					
Sec 4.2							1			1	1		2	2	1	
Sec 4.3		1					1		3		1	2			1	

**DSE Question Table**

	4.1	4.2	4.3
Paper 1 - A(1)			
Paper 1 - A(2)			2024-P1-Q12
Paper 1 - B		2023-P1-Q19	
Paper 2 - A	Prac-P2-Q7 2012-P2-Q25 2013-P2-Q14 2014-P2-Q25 2015-P2-Q25 2017-P2-Q23 2017-P2-Q24 2019-P2-Q23 2020-P2-Q26	2016-P2-Q25 2019-P2-Q24 2020-P2-Q8 2022-P2-Q24 2023-P2-Q25	Prac-P2-Q26 2016-P2-Q26 2018-P2-Q6 2018-P2-Q26 2021-P2-Q26 2024-P2-Q26
Paper 2 - B	2017-P2-Q41	2022-P2-Q41 2023-P2-Q41 2024-P2-Q34	2018-P2-Q40 2020-P2-Q40 2021-P2-Q41
Cross Topic			

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 5.1																
Sec 5.2																
Sec 5.3																
Sec 5.4	1	1	1	1			1	1	1	1	1	1	1	1	1	
Sec 5.5			1	1	1		1					1		1	1	
Sec 5.6	1					1			1							

**DSE Question Table**

	5.1	5.2	5.3	5.4	5.5	5.6
Paper 1 - A(1)				2014-P1-Q7		
Paper 1 - A(2)		Samp-P1-Q10 2013-P1-Q12		Prac-P1-Q10 2015-P1-Q11 2016-P1-Q14 2017-P1-Q14 2018-P1-Q12 2019-P1-Q11 2020-P1-Q13 2021-P1-Q12 2022-P1-Q14 2023-P1-Q13 2024-P1-Q14		
Paper 1 - B						
Paper 2 - A				Samp-P2-Q5 Prac-P2-Q5 2012-P2-Q4 2013-P2-Q9 2016-P2-Q6 2017-P2-Q7 2018-P2-Q8 2019-P2-Q9 2020-P2-Q6 2021-P2-Q8 2022-P2-Q9 2023-P2-Q9 2024-P2-Q9		
Paper 2 - B					2012-P2-Q31 2013-P2-Q31 2014-P2-Q31 2016-P2-Q31 2021-P2-Q31 2023-P2-Q32 2024-P2-Q31	Samp-P2-Q31 2015-P2-Q31
Cross Topic						

## S4-Ch6

Exponential Functions NF

## Section List

Sec 6.1 Laws of Rational Indices NFSec 6.2 Exponential Equations NFSec 6.3 Exponential Functions and their Graphs NF

## DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 6.1																
Sec 6.2																
Sec 6.3																

## DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 6.1																
Sec 6.2																
Sec 6.3											1					

## DSE Question Table

	6.1	6.2	6.3
Paper 1 - A(1)			
Paper 1 - A(2)			
Paper 1 - B			
Paper 2 - A			
Paper 2 - B			2020-P2-Q33
Cross Topic			

## Section List

## Sec 7.5 Historical Development of the Concept of Logarithms NF

[illegible]

**DSE Question Table**

	7.1	7.2	7.3	7.4	7.5
Paper 1 - A(1)					
Paper 1 - A(2)					
Paper 1 - B		Samp-P1-Q17	2014-P1-Q15 2017-P1-Q15	2024-P1-Q15	
Paper 2 - A					
Paper 2 - B		Samp-P2-Q32 Prac-P2-Q37 2014-P2-Q33 2022-P2-Q31	Prac-P2-Q36 2012-P2-Q32 2015-P2-Q32 2016-P2-Q32 2018-P2-Q33 2019-P2-Q31 2021-P2-Q34 2022-P2-Q32 2022-P2-Q33 2023-P2-Q33 2024-P2-Q33	2013-P2-Q32 2014-P2-Q32 2018-P2-Q32 2020-P2-Q34 2021-P2-Q33	
Cross Topic	2019-P2-Q32				



## S4-Ch8

# More about Equations NF

### Section List

Sec 8.1 Solving Simultaneous Equations by the Algebraic Method NF

Sec 8.2 Solving Simultaneous Equations by the Graphical Method NF

Sec 8.3 Equations Reducible to Quadratic Equations NF

Sec 8.4 Practical Problems Leading to Quadratic Equations NF

#### DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 8.1																
Sec 8.2																
Sec 8.3																
Sec 8.4																

#### DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 8.1															1	
Sec 8.2																
Sec 8.3				1				2		1						
Sec 8.4											1					

**DSE Question Table**

	8.1	8.2	8.3	8.4
Paper 1 - A(1)				
Paper 1 - A(2)				
Paper 1 - B				
Paper 2 - A	2024-P2-Q5			
Paper 2 - B			2013-P2-Q34 2017-P2-Q33 2017-P2-Q34 2019-P2-Q32	2020-P2-Q32
Cross Topic				

## S4-Ch9

# Variations

## Section List

Sec 9.1 Basic Concept of Variation

Sec 9.2 Direct Variation

Sec 9.3 Inverse Variation

Sec 9.4 Joint Variation

Sec 9.5 Partial Variation

### DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 9.1																
Sec 9.2																
Sec 9.3								5								
Sec 9.4																
Sec 9.5	6	6	6	6	8	6	5			5	6	6	6	7	6	

### DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 9.1																
Sec 9.2																
Sec 9.3				1												
Sec 9.4	1	1		1	1	1	1		1	1	1	1	1	1	1	
Sec 9.5			1					1								

**DSE Question Table**

	9.1	9.2	9.3	9.4	9.5
Paper 1 - A(1)			2017-P1-Q8		2016-P1-Q8
Paper 1 - A(2)					Samp-P1-Q11 Prac-P1-Q11 2012-P1-Q11 2013-P1-Q11 2014-P1-Q13 2015-P1-Q10 2019-P1-Q10 2020-P1-Q10 2021-P1-Q10 2022-P1-Q10 2023-P1-Q12 2024-P1-Q10
Paper 1 - B					
Paper 2 - A			2013-P2-Q28	Samp-P2-Q14 Prac-P2-Q13 2013-P2-Q13 2014-P2-Q13 2015-P2-Q12 2016-P2-Q12 2018-P2-Q11 2019-P2-Q13 2020-P2-Q11 2021-P2-Q12 2022-P2-Q13 2023-P2-Q13 2024-P2-Q13	2012-P2-Q10 2017-P2-Q12
Paper 2 - B					
Cross Topic					

# S4-Ch10

## More about Trigonometry

### Section List

Sec 10.1 Angles of Rotation

Sec 10.2 Trigonometric Ratios of Any Angle

Sec 10.3 Graphs of Trigonometric Functions

Sec 10.4 Graphical Solutions of Trigonometric Equations

Sec 10.5 Trigonometric Identities

Sec 10.6 Solving Trigonometric Equations by Algebraic Methods

### DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 10.1																
Sec 10.2																
Sec 10.3																
Sec 10.4																
Sec 10.5																
Sec 10.6																

### DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 10.1																
Sec 10.2													1	1		
Sec 10.3																
Sec 10.4																
Sec 10.5	1		1		1	1										
Sec 10.6					1	1	1		1				1		1	

**DSE Question Table**

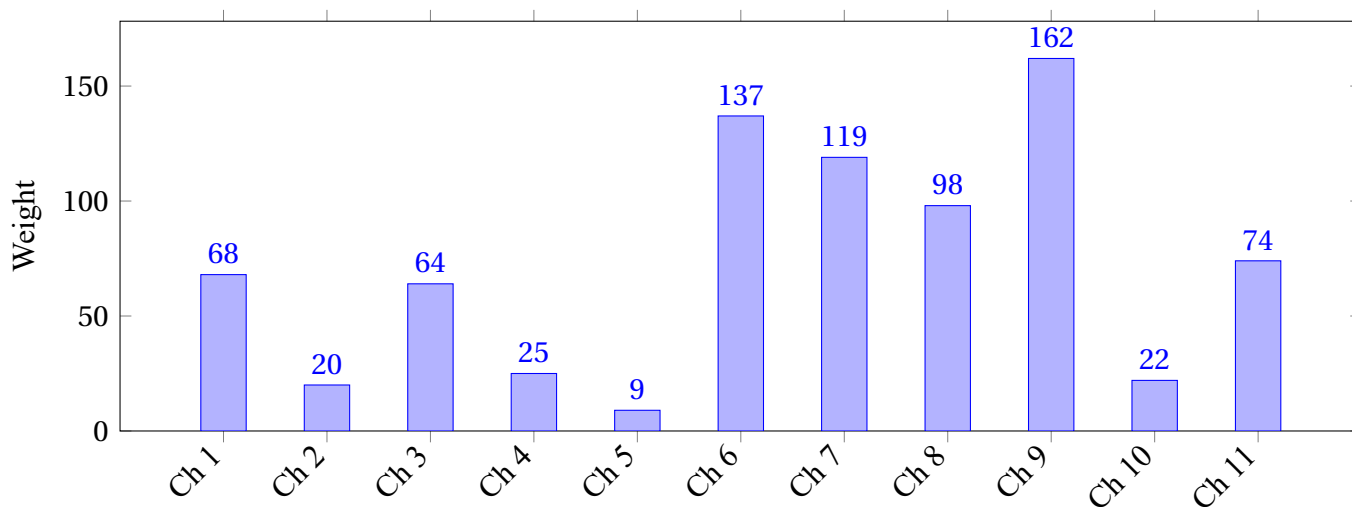
	10.1	10.2	10.3	10.4	10.5	10.6
Paper 1 - A(1)						
Paper 1 - A(2)						
Paper 1 - B						
Paper 2 - A		2022-P2-Q25 2023-P2-Q24			Samp-P2-Q19 2012-P2-Q19 2014-P2-Q19 2015-P2-Q19	
Paper 2 - B						2014-P2-Q39 2015-P2-Q38 2016-P2-Q38 2018-P2-Q38 2022-P2-Q39 2024-P2-Q39
Cross Topic						

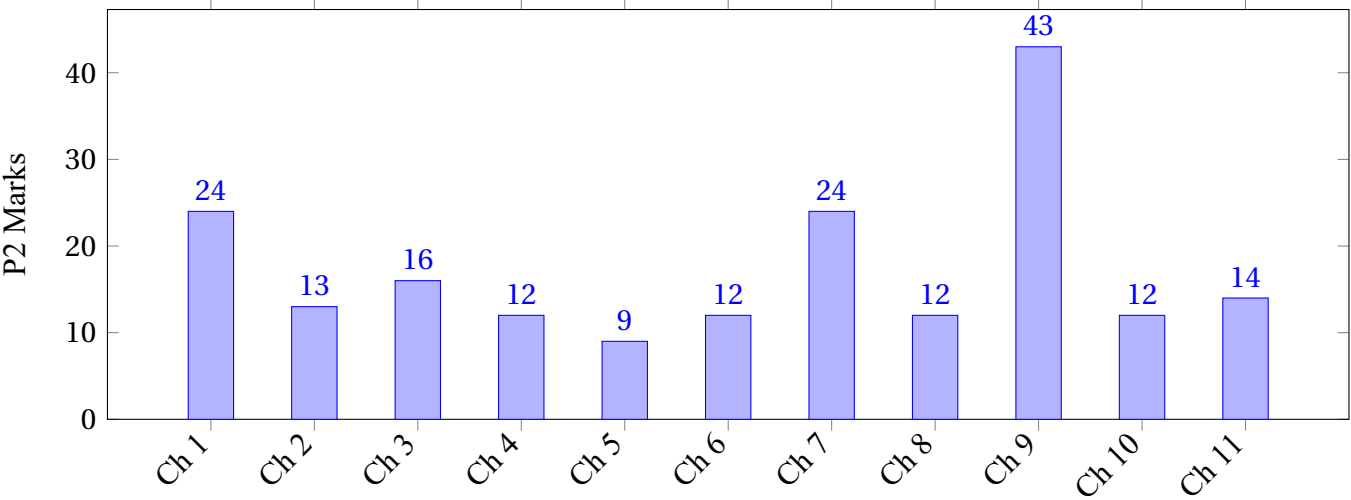
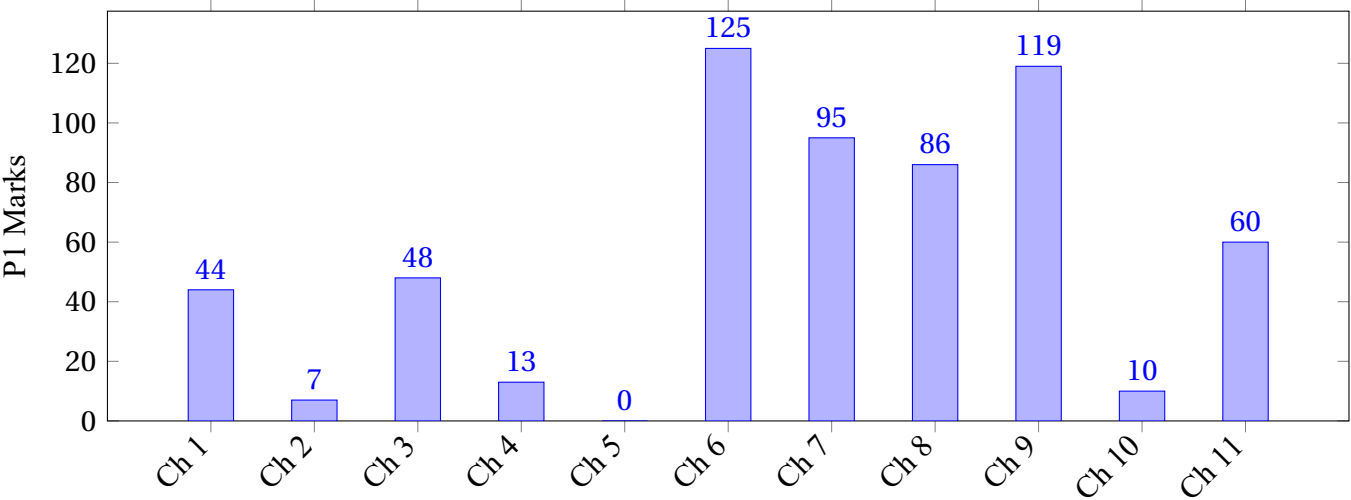
## S5 Chapters

### Chapter List

Ch 1.	Basic Properties of Circles	P.105
Ch 2.	Tangents to Circles <b>NF</b>	P.107
Ch 3.	Inequalities	P.109
Ch 4.	Linear Programming <b>NF</b>	P.111
Ch 5.	Applications of Trigonometry in 2-D problems <b>NF</b>	P.113
Ch 6.	Applications of Trigonometry in 3-D problems <b>NF</b>	P.115
Ch 7.	Equations of Circles	P.117
Ch 8.	Locus	P.119
Ch 9.	Measures of Dispersion	P.121
Ch 10.	Permutation and Combination <b>NF</b>	P.124
Ch 11.	More about Probability <b>NF</b>	P.126

### Mark Distribution from Chapter 1 to Chapter 11







[illegible]

**DSE Question Table**

	1.1	1.2	1.3	1.4	1.5	1.6
Paper 1 - A(1)			Samp-P1-Q7 2015-P1-Q8	Prac-P1-Q7 2012-P1-Q8 2023-P1-Q7	2018-P1-Q8	
Paper 1 - A(2)				2019-P1-Q13	2017-P1-Q10	
Paper 1 - B						
Paper 2 - A		Samp-P2-Q16 2014-P2-Q21 2018-P2-Q17	Samp-P2-Q21 Prac-P2-Q20 2012-P2-Q20 2015-P2-Q21 2016-P2-Q22 2018-P2-Q22 2022-P2-Q21	Samp-P2-Q22 Prac-P2-Q21 2013-P2-Q19 2014-P2-Q20 2015-P2-Q20 2019-P2-Q21 2020-P2-Q22 2023-P2-Q16 2024-P2-Q22	2017-P2-Q21 2021-P2-Q22 2023-P2-Q22	
Paper 2 - B		Prac-P2-Q40	2017-P2-Q40			
Cross Topic						2019-P1-Q19

## S5-Ch2

# Tangents to Circles NF

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## Section List

Sec 2.1 Tangents to a Circle and their Properties NF

Sec 2.2 Tangents from an External Point NF

Sec 2.3 Angles in the Alternate Segment NF

### DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 2.1																
Sec 2.2																
Sec 2.3											7					

### DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 2.1	1		1	1	1					1						
Sec 2.2						1	1									
Sec 2.3									1		1	1	1	1	1	

**DSE Question Table**

	2.1	2.2	2.3
Paper 1 - A(1)			
Paper 1 - A(2)			
Paper 1 - B			2020-P1-Q18
Paper 2 - A			
Paper 2 - B	Samp-P2-Q41 2012-P2-Q41 2013-P2-Q41 2014-P2-Q41 2019-P2-Q39	2015-P2-Q40 2016-P2-Q40	2018-P2-Q39 2020-P2-Q39 2021-P2-Q39 2022-P2-Q38 2023-P2-Q38 2024-P2-Q38
Cross Topic			

## S5-Ch3

## Inequalities

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## Section List

Sec 3.1 Compound Linear Inequalities in One Unknown

Sec 3.2 Solving Quadratic Inequalities in One Unknown by the Graphical Method

Sec 3.3 Solving Quadratic Inequalities in One Unknown by the Algebraic Method **NF**

Sec 3.4 Problems Leading to Quadratic Inequalities in One Unknown

### DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 3.1			4	4		4	4	4	4	4	4	4	4	4	4	
Sec 3.2																
Sec 3.3																
Sec 3.4																

### DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 3.1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Sec 3.2																
Sec 3.3																
Sec 3.4												1				

**DSE Question Table**

	3.1	3.2	3.3	3.4
Paper 1 - A(1)	2012-P1-Q6 2013-P1-Q5 2015-P1-Q5 2016-P1-Q6 2017-P1-Q5 2018-P1-Q6 2019-P1-Q6 2020-P1-Q6 2021-P1-Q4 2022-P1-Q6 2023-P1-Q4 2024-P1-Q4			
Paper 1 - A(2)				
Paper 1 - B				
Paper 2 - A	Samp-P2-Q9 Prac-P2-Q9 2012-P2-Q7 2013-P2-Q5 2014-P2-Q7 2015-P2-Q6 2016-P2-Q7 2017-P2-Q5 2018-P2-Q13 2019-P2-Q7 2020-P2-Q13 2021-P2-Q10 2022-P2-Q7 2023-P2-Q6 2024-P2-Q10			
Paper 2 - B				2021-P2-Q37
Cross Topic				

## Section List

Sec 4.4 Applications of Linear Programming NF[illegible][illegible]

DSE Question Table

	4.1	4.2	4.3	4.4
Paper 1 - A(1)				
Paper 1 - A(2)				
Paper 1 - B			2021-P1-Q16	2014-P1-Q18
Paper 2 - A				
Paper 2 - B		Samp-P2-Q35 2012-P2-Q36 2015-P2-Q36	2013-P2-Q37 2016-P2-Q35 2017-P2-Q37 2018-P2-Q34 2019-P2-Q35 2020-P2-Q36 2022-P2-Q36 2023-P2-Q37 2024-P2-Q37	
Cross Topic				



## S5-Ch5

# Applications of Trigonometry in 2-D problems

NF

## Section List

Sec 5.1 Area of a Triangle NF

Sec 5.2 The Sine Formula NF

Sec 5.3 The Cosine Formula NF

Sec 5.4 Trigonometric Problems in Two Dimensions NF

### DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 5.1																
Sec 5.2																
Sec 5.3																
Sec 5.4																

### DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 5.1										1						
Sec 5.2	2															
Sec 5.3				1				2								
Sec 5.4												1	2			

**DSE Question Table**

	5.1	5.2	5.3	5.4
Paper 1 - A(1)				
Paper 1 - A(2)				
Paper 1 - B				
Paper 2 - A		Samp-P2-Q24	2013-P2-Q22 2017-P2-Q25	2022-P2-Q16 2022-P2-Q17
Paper 2 - B	2019-P2-Q38	Samp-P2-Q38	2017-P2-Q38	2021-P2-Q38
Cross Topic				

## S5-Ch6

# Applications of Trigonometry in 3-D problems NF

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## Section List

Sec 6.1 Basic Terminologies in 3-dimensional Problems NF

Sec 6.2 More Examples on 3-dimensional Problems NF

Sec 6.3 Practical 3-dimensional Problems NF

### DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 6.1																
Sec 6.2		8								7		7				
Sec 6.3	8		8	8	7	13	6	13	7		12		7	6	8	

### DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 6.1			1							1						
Sec 6.2					1		1									
Sec 6.3	1	1						1	1		1		1	1	1	

**DSE Question Table**

	6.1	6.2	6.3
Paper 1 - A(1)			
Paper 1 - A(2)			
Paper 1 - B		Prac-P1-Q18 2019-P1-Q18 2021-P1-Q18	Samp-P1-Q18 2012-P1-Q18 2013-P1-Q18 2014-P1-Q17 2015-P1-Q19 2016-P1-Q19 2017-P1-Q19 2018-P1-Q17 2020-P1-Q19 2022-P1-Q18 2023-P1-Q17 2024-P1-Q18
Paper 2 - A			
Paper 2 - B	2012-P2-Q40 2019-P2-Q40	2014-P2-Q40 2016-P2-Q39	Samp-P2-Q40 Prac-P2-Q39 2017-P2-Q39 2018-P2-Q41 2020-P2-Q38 2022-P2-Q40 2023-P2-Q40 2024-P2-Q40
Cross Topic			

## S5-Ch7

## Equations of Circles

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## Section List

Sec 7.1 Equations of Circles

Sec 7.2 More about Equations of Circles

Sec 7.3 Intersection between a Straight Line and a Circle **NF**

### DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 7.1																
Sec 7.2		9	7			9			12							
Sec 7.3	13						12				9	12	12			

### DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 7.1					1	1										
Sec 7.2		1	1				1	1	1	1	1		1	1	1	
Sec 7.3		1	1	2	1	1	1			1	1	2		1		

**DSE Question Table**

	7.1	7.2	7.3
Paper 1 - A(1)			
Paper 1 - A(2)		Prac-P1-Q14 2015-P1-Q14	2020-P1-Q14
Paper 1 - B		2012-P1-Q17 2018-P1-Q19	Samp-P1-Q19 2016-P1-Q20 2021-P1-Q19 2022-P1-Q19
Paper 2 - A	2014-P2-Q26 2015-P2-Q26	Prac-P2-Q27 2012-P2-Q26 2016-P2-Q27 2017-P2-Q26 2018-P2-Q27 2019-P2-Q27 2020-P2-Q27 2022-P2-Q27 2023-P2-Q27 2024-P2-Q27	2013-P2-Q25 2021-P2-Q27
Paper 2 - B			Prac-P2-Q41 2012-P2-Q42 2013-P2-Q42 2014-P2-Q42 2015-P2-Q41 2016-P2-Q41 2019-P2-Q37 2020-P2-Q41 2021-P2-Q40 2023-P2-Q39
Cross Topic			

## S5-Ch8

# Locus

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## Section List

Sec 8.1 Concept of a Locus

Sec 8.2 Sketch and Description of a Locus

Sec 8.3 Algebraic Equation of a Locus

### DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 8.1																
Sec 8.2																
Sec 8.3	9	5	9	9	7		5	7		7		7	7	6	8	

### DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 8.1																
Sec 8.2			1		1	1				1						
Sec 8.3				1				1	1		1	1	1	1	1	

**DSE Question Table**

	8.1	8.2	8.3
Paper 1 - A(1)			Prac-P1-Q8
Paper 1 - A(2)			Samp-P1-Q13 2012-P1-Q14 2013-P1-Q14 2014-P1-Q12 2016-P1-Q10 2017-P1-Q13 2021-P1-Q13 2022-P1-Q12 2023-P1-Q10
Paper 1 - B			2019-P1-Q17 2024-P1-Q17
Paper 2 - A		2012-P2-Q24 2014-P2-Q24 2015-P2-Q24 2019-P2-Q26	2013-P2-Q24 2017-P2-Q27 2018-P2-Q25 2020-P2-Q25 2021-P2-Q25 2022-P2-Q26 2023-P2-Q26 2024-P2-Q25
Paper 2 - B			
Cross Topic			



# S5-Ch9

## Measures of Dispersion

### Section List

Sec 9.1 Introduction to Measures of Dispersion

Sec 9.2 Range and Inter-quartile Range

Sec 9.3 Box-and-Whisker Diagram

Sec 9.4 Standard Deviation

Sec 9.5 Comparing Dispersions Using Appropriate Measures

Sec 9.6 Applications of Standard Deviation **NF**

Sec 9.7 Effects of Data Change on Measures of Dispersion **NF**

### DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 9.1																
Sec 9.2		5				7	7				6				7	
Sec 9.3			4	4	6				5							
Sec 9.4				5	3			7		8	5	5		7		
Sec 9.5																
Sec 9.6		4	3			4	3									
Sec 9.7	7												7			

**DSE Core Paper 2**

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 9.1																
Sec 9.2					1			1	1	1	1	1	1			
Sec 9.3	1	1		1		1		1		1				1	1	
Sec 9.4		1	1				1								1	
Sec 9.5																
Sec 9.6					1			1	1	1	1	1	1	1	1	
Sec 9.7	2	2	1	1	1	1	1	1		1	1		1	1	1	

**DSE Question Table**

	9.1	9.2	9.3	9.4	9.5	9.6	9.7
Paper 1 - A(1)		Prac-P1-Q9	2012-P1-Q7	2013-P1-Q9 2014-P1-Q4 2020-P1-Q9 2021-P1-Q9			
Paper 1 - A(2)		2015-P1-Q12 2016-P1-Q12 2020-P1-Q11 2024-P1-Q11	2014-P1-Q11 2018-P1-Q10	2017-P1-Q11 2019-P1-Q12 2023-P1-Q11			Samp-P1-Q14 2022-P1-Q11
Paper 1 - B			2013-P1-Q15			Prac-P1-Q15 2012-P1-Q15 2015-P1-Q15 2016-P1-Q16	
Paper 2 - A		2014-P2-Q30 2017-P2-Q30 2018-P2-Q30 2019-P2-Q30 2020-P2-Q29 2021-P2-Q29 2022-P2-Q30	Samp-P2-Q27 Prac-P2-Q29 2013-P2-Q29 2015-P2-Q29 2017-P2-Q29 2019-P2-Q29 2023-P2-Q29 2024-P2-Q29	Prac-P2-Q30 2012-P2-Q29 2024-P2-Q30			Samp-P2-Q29
Paper 2 - B				2016-P2-Q44		2014-P2-Q44 2017-P2-Q44 2018-P2-Q44 2019-P2-Q44 2020-P2-Q44 2021-P2-Q44 2022-P2-Q44 2023-P2-Q44 2024-P2-Q44	Samp-P2-Q45 Prac-P2-Q44 Prac-P2-Q45 2012-P2-Q45 2013-P2-Q45 2014-P2-Q45 2015-P2-Q45 2016-P2-Q45 2017-P2-Q45 2019-P2-Q45 2020-P2-Q45 2022-P2-Q45 2023-P2-Q45 2024-P2-Q45
Cross Topic							

S5-Ch10

Permutation and Combination NF

Section List

Sec 10.1 Basic Principles of Counting NF

Sec 10.2 Permutation NF

Sec 10.3 Combination NF

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 10.1																
Sec 10.2									3							
Sec 10.3										3				4		

DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 10.1																
Sec 10.2				1		1					1		1		1	
Sec 10.3			1		1		1	1	1			1		1		

DSE Question Table

	10.1	10.2	10.3
Paper 1 - A(1)			
Paper 1 - A(2)			
Paper 1 - B		2018-P1-Q15	2019-P1-Q15 2023-P1-Q15
Paper 2 - A			
Paper 2 - B		2013-P2-Q44 2015-P2-Q43 2020-P2-Q42 2022-P2-Q42 2024-P2-Q42	2012-P2-Q43 2014-P2-Q43 2016-P2-Q43 2017-P2-Q42 2018-P2-Q42 2021-P2-Q42 2023-P2-Q42
Cross Topic			

# S5-Ch11

## More about Probability NF

### Section List

Sec 11.1 Set Language NF

Sec 11.2 Using Set Language in Probability NF

Sec 11.3 Addition Law of Probability NF

Sec 11.4 Multiplication Law of Probability for Independent Events NF

Sec 11.5 Conditional Probability and Multiplication Law of Probability for Dependent Events NF

Sec 11.6 Using Permutation and Combination to Solve Probability Problems NF

#### DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 11.1																
Sec 11.2																
Sec 11.3																
Sec 11.4				4		4										
Sec 11.5					13											
Sec 11.6	5	4	4				3	6			5	4	4		4	

#### DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 11.1																
Sec 11.2																
Sec 11.3																
Sec 11.4	1					1		1		1		1				
Sec 11.5			1							1			1	1	1	
Sec 11.6	1	1					1				1					

**DSE Question Table**

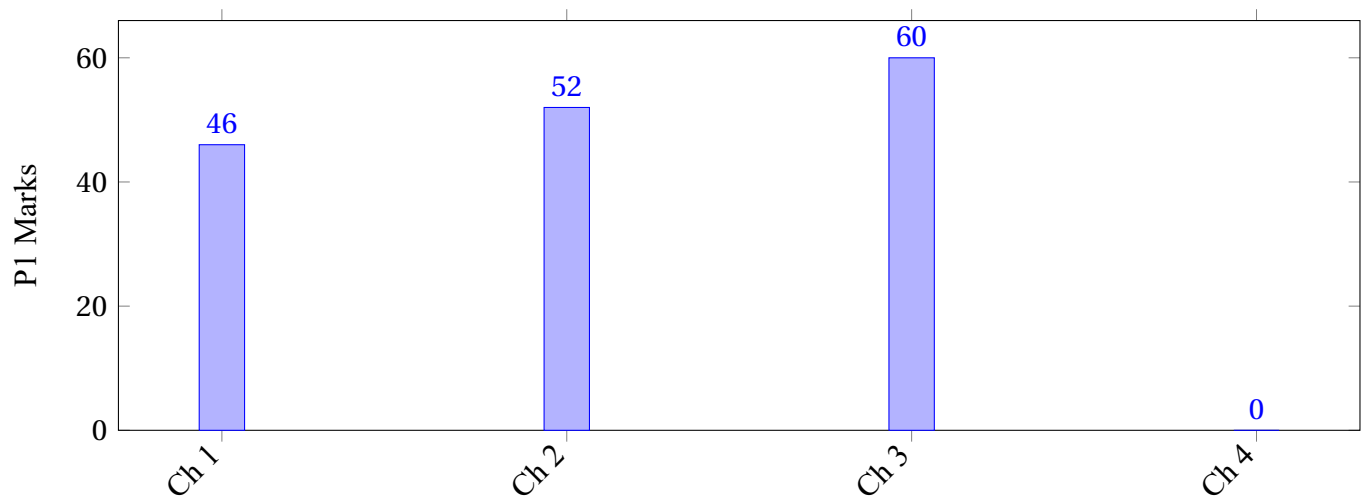
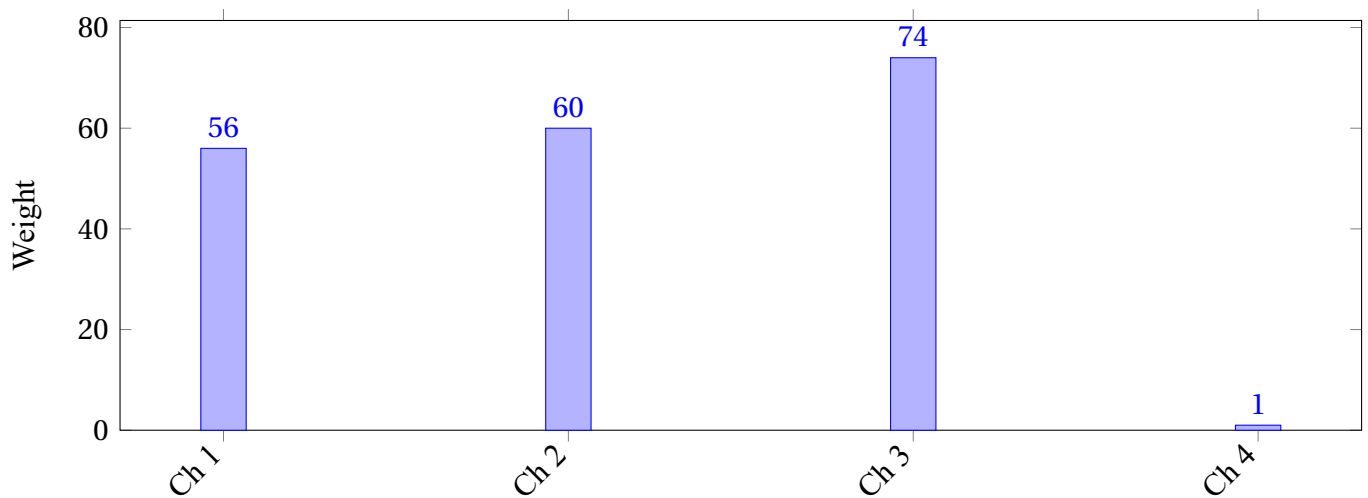
	11.1	11.2	11.3	11.4	11.5	11.6
Paper 1 - A(1)						
Paper 1 - A(2)						
Paper 1 - B				2013-P1-Q16 2015-P1-Q16	2014-P1-Q19	Samp-P1-Q16 Prac-P1-Q16 2012-P1-Q16 2016-P1-Q15 2017-P1-Q17 2020-P1-Q15 2021-P1-Q15 2022-P1-Q15 2024-P1-Q16
Paper 2 - A						
Paper 2 - B				Samp-P2-Q43 2015-P2-Q44 2017-P2-Q43 2019-P2-Q42 2021-P2-Q43	2012-P2-Q44 2019-P2-Q43 2022-P2-Q43 2023-P2-Q43 2024-P2-Q43	Samp-P2-Q44 Prac-P2-Q43 2016-P2-Q42 2020-P2-Q43
Cross Topic						

## S6 Chapters

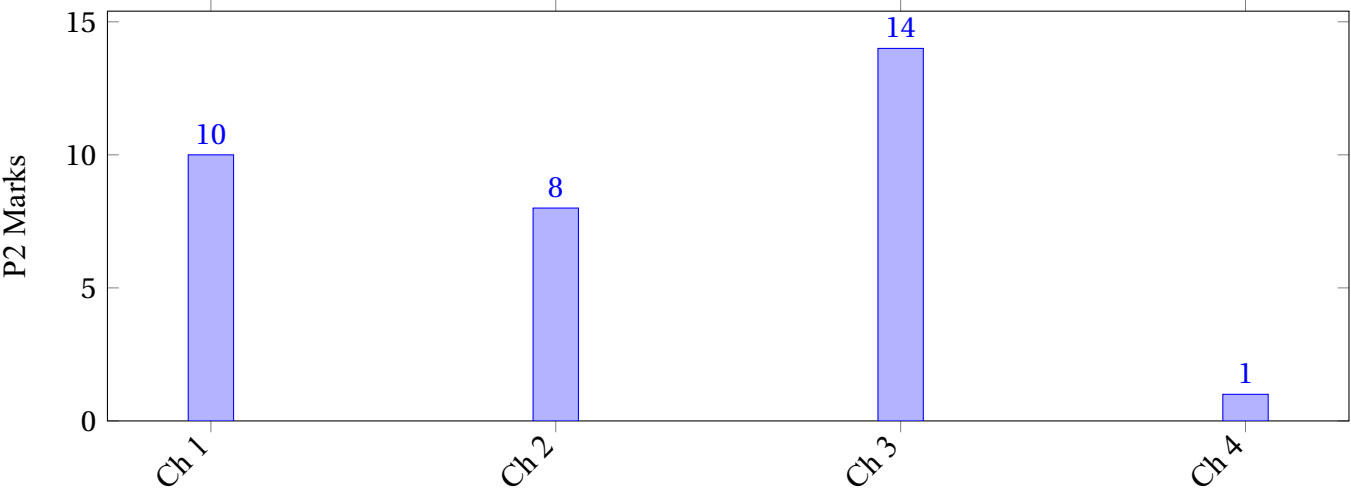
### Chapter List

Ch 1.	Arithmetic and Geometric Sequences	P.130
Ch 2.	Summation of Arithmetic and Geometric Sequences <small>NF</small>	P.132
Ch 3.	More about Graphs of Functions	P.134
Ch 4.	Uses and Abuses of Statistics	P.136

### Mark Distribution from Chapter 1 to Chapter 4







[illegible]

**DSE Question Table**

	1.1	1.2	1.3	1.4
Paper 1 - A(1)				
Paper 1 - A(2)				
Paper 1 - B		2014-P1-Q16	2018-P1-Q16 2019-P1-Q16 2020-P1-Q16	2013-P1-Q19 2016-P1-Q17 2023-P1-Q18
Paper 2 - A				
Paper 2 - B		Samp-P2-Q36 2012-P2-Q37 2017-P2-Q36 2018-P2-Q45 2020-P2-Q35	2014-P2-Q37 2015-P2-Q37 2019-P2-Q36 2021-P2-Q36 2022-P2-Q37	
Cross Topic				

## NF

## NF

NF

NF

NF

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 2.1																
Sec 2.2	4											7	7			
Sec 2.3		12	13													
Sec 2.4						5		4								

[illegible]

**DSE Question Table**

	2.1	2.2	2.3	2.4
Paper 1 - A(1)				
Paper 1 - A(2)				
Paper 1 - B		Samp-P1-Q15 2021-P1-Q17 2022-P1-Q17	Prac-P1-Q19 2012-P1-Q19	2015-P1-Q17 2017-P1-Q16
Paper 2 - A				
Paper 2 - B		Prac-P2-Q35 2013-P2-Q38 2018-P2-Q35 2021-P2-Q45 2024-P2-Q36	2016-P2-Q36 2018-P2-Q43	2023-P2-Q36
Cross Topic				

# S6-Ch3

## More about Graphs of Functions

### Section List

Sec 3.1 Graphs of Some Functions

Sec 3.2 Solving Equations Using the Graphical Method

Sec 3.3 Solving Inequalities Using the Graphical Method

Sec 3.4 Transformations of Functions **NF**

#### DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 3.1																
Sec 3.2			7													
Sec 3.3																
Sec 3.4						9	6		8	12	6				12	

#### DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 3.1																
Sec 3.2																
Sec 3.3	1															
Sec 3.4	2	2	2	1	1	1	1	1	1					1		

**DSE Question Table**

	3.1	3.2	3.3	3.4
Paper 1 - A(1)				
Paper 1 - A(2)		2012-P1-Q13		
Paper 1 - B				2015-P1-Q18 2016-P1-Q18 2018-P1-Q18 2019-P1-Q19 2020-P1-Q17 2024-P1-Q19
Paper 2 - A			Samp-P2-Q8	
Paper 2 - B				Samp-P2-Q37 Samp-P2-Q42 Prac-P2-Q31 Prac-P2-Q38 2012-P2-Q38 2012-P2-Q39 2013-P2-Q39 2014-P2-Q38 2015-P2-Q39 2016-P2-Q37 2017-P2-Q31 2018-P2-Q31 2023-P2-Q35
Cross Topic				

[illegible]



**DSE Question Table**

	4.1	4.2	4.3	4.4
Paper 1 - A(1)				
Paper 1 - A(2)				
Paper 1 - B				
Paper 2 - A				Samp-P2-Q30
Paper 2 - B				
Cross Topic				