MATHEMATICS GRADE 6
AIR FOUNDATION SCHOOL SYSTEM
ISLAMABAD | PAKISTAN

## Teaching weeks per annum

For the regions where academic session begins in April

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FIRST TERM: APRIL - SEPTEMBER
```

Expected Teaching Weeks

| April | Teaching Week 1 | Teaching Week 2 | Teaching Week 3 | Teaching Week 4 |
| :--- | :--- | :--- | :--- | :--- |
| May | Teaching Week 5 | Teaching Week 6 | Teaching Week 7 | First Midterm Examination |
| June | Summer Vacation | Summer Vacation | Summer Vacation | Summer Vacation |
| July | Summer Vacation | Summer Vacation | Summer Vacation | Summer Vacation |
| August | Teaching Week 8 | Teaching Week 9 | Teaching Week 10 | Teaching Week 11 |
| September | Teaching Week 12 | Teaching Week 13 | Midterm Examination | Mid Term Examination |

SECOND TERM: OCTOBER - MARCH
Expected Teaching Weeks

| October | Teaching Week 14 | Teaching Week 15 | Teaching Week 16 | Teaching Week 17 |
| :--- | :--- | :--- | :--- | :--- |
| November | Teaching Week 18 | Teaching Week 19 | Teaching Week 20 | Teaching Week 21 |
| December | Teaching Week 22 | Second Midterm Examination | Winter Vacation | Winter Vacation |
| January | Teaching Week 23 | Teaching Week 24 | Teaching Week 25 | Teaching Week 26 |
| February | Teaching Week 27 | Teaching Week 28 | Teaching Week 29 | Teaching Week 30 |
| March | Revision Work | Annual Examination | Annual Examination | PTM \& Annual Day |

## Teaching weeks per annum

For the regions where academic session begins in August
FIRST TERM: AUGUST - DECEMBER
Expected Teaching Weeks

| August | Teaching Week 1 | Teaching Week 2 | Teaching Week 3 | Teaching Week 4 |
| :--- | :--- | :--- | :--- | :--- |
| September | Teaching Week 5 | Teaching Week 6 | Teaching Week 7 | First Midterm Examination |
| October | Teaching Week 8 | Teaching Week 9 | Teaching Week 10 | Teaching Week 11 |
| November | Teaching Week 12 | Teaching Week 13 | Teaching Week 14 | Teaching Week 15 |
| December | Midterm Examination | Midterm Examination | Winter Vacation | Winter Vacation |

SECOND TERM: OCTOBER - MARCH
Expected Teaching Weeks

| January | Teaching Week 16 | Teaching Week 17 | Teaching Week 18 | Teaching Week 19 |
| :--- | :--- | :--- | :--- | :--- |
| February | Teaching Week 20 | Teaching Week 21 | Teaching Week 22 | Second Midterm Exam |
| March | Teaching Week 23 | Teaching Week 24 | Teaching Week 25 | Teaching Week 26 |
| April | Teaching Week 27 | Teaching Week 28 | Teaching Week 29 | Teaching Week 30 |
| May | Revision Work | Annual Examination | Annual Examination | PTM \& Annual Day |

## Allocation of periods

Subjects and period distribution for preparing timetable, syllabus breakdown, lesson plans etc.

| SN | SUBJECT | JUNIOR |  |  | PRIMARY |  | SECONDARY |  |  | $\begin{aligned} & \text { EACH } \\ & \text { SUBJECT } \\ & \text { PER } \\ & \text { ANNUM } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | GRADE - 1 | GRADE - 2 | GRADE - 3 | GRADE - 4 | GRADE - 5 | GRADE - 6 | GRADE - 7 | GRADE - 8 |  |
| 1 | English Language | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 150 |
| 2 | Urdu Language | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |  |
| 3 | Mathematics | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |  |
| 4 | Science | - | - | - | 5 | 5 | 5 | 5 | 5 |  |
| 5 | General Knowledge | 5 | 5 | 5 | - | - | - | - | - |  |
| 6 | Sindhi Language ${ }^{1}$ | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 120 |
| 7 | Social Studies | - | - | - | 4 | 4 | - | - | - |  |
| 8 | Islamiyat | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |  |
| 9 | Nazra-e-Quran ${ }^{2}$ | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |  |
| 10 | Geography | - | - | - | - | - | 3 | 3 | 3 | 90 |
| 11 | Computer Science | 3 SRM $^{3}$ | 3 SRM | 3 SRM | 3 SRM | 3 SRM | 3 | 3 | 3 |  |
| 12 | Life Skills | 3 SRM | 3 SRM | 3 SRM | - | - | - | - | - |  |
| 13 | Artwork | 3 SRM | 3 SRM | 3 SRM | - | - | - | - | - |  |
| 14 | History | - | - | - | - | - | 2 | 2 | 2 | 60 |
| 15 | Life Skills \& Art | - | - | - | 2 SRM | 2 SRM | - | - | - |  |
|  |  | - | - | - | - | - | 1 SRM | 1 SRM | 1 SRM | 30 |
| PERIODS PER WEEK |  | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 |  |

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| WEEK | [150] | UNIT \& TOPIC CONTENT INCLUDING PAGE NUMBER | SIGN CR/CT | DATE |
| :---: | :---: | :---: | :---: | :---: |
| $1 / 30$ | 1. | Unit: 1, Introduction To Sets Sets Page: 5-6 |  |  |
|  | 2. | Unit: 1, Introduction To Sets Sets Page: 5-6 |  |  |
|  | 3. | EXERCISE 1A, Q 1 to 4 ( understanding and Solution) Page : 6 | Knjbbjn bhb |  |
|  | 4. | Set Notation (descriptive, tabular and Set builder Notation ) page: 6-7 |  |  |
|  | 5. | EXERCISE 1B: (Q 1 to 3) page: 8 |  |  |

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| WEEK | [150] | UNIT \& TOPIC CONTENT INCLUDING PAGE NUMBER | SIGN CR/CT | DATE |
| 2130 | 6. | Universal Set , Venn Diagrams page: 8-9 |  |  |
|  | 7. | EXERCISE 1C: (Q 1 to 3) page: 10 |  |  |
|  | 8. | Types of Sets: Finite and Infinite Set, Unit/ Singleton Set and Empty set. EXERCISE 1D: Q 1 to 3. <br> page: 10-11 |  |  |
|  | 9. | Types of Sets: Finite and Infinite Set, Unit/Singleton Set and Empty set. EXERCISE 1D: Q 1 to 3. <br> page: 10-11 |  |  |
|  | 10. | EXERCISE 1D: Q 4 to 5. page: 11-12 |  |  |

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| WEEK | [150] | UNIT \& TOPIC CONTENT INCLUDING PAGE NUMBER | SIGN CR/CT | DATE |
| $3 / 30$ | 11. | Cardinality of A Set, Symbols used in sets Multiple Choice Questions 1 page: 12-13 |  |  |
|  | 12. | REVISION 1: <br> PAGE: 14-15 |  |  |
|  | 13. | Unit 2: INTEGERS ( Natural numbers, Whole numbers, Some rules for Natural and Whole numbers, Properties of 0 and 1) <br> PAGE: 18 to 21 |  |  |
|  | 14. | Rules for Operating on natural numbers and whole numbers. Properties of Addition, Subtraction and Multiplication. <br> EXERCISE 2A: Q1( I to vi) <br> page: 21 to 23, 26 |  |  |
|  | 15. | Rules for Operating on natural numbers and whole numbers Properties of Multiplication and Division EXERCISE 2A: Q1( vii to xiv) and Q 2: page: 23-26 |  |  |

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| WEEK | [150] | UNIT \& TOPIC CONTENT INCLUDING PAGE NUMBER | SIGN CR/CT | DATE |
| $4 / 30$ | 16. | EXERCISE 2A: Q 3 and Q 4: Page: 26 |  |  |
|  | 17. | Integers, The Set of Integers, Integers on a number line Example 1 to5: <br> Page: 27 to 30 |  |  |
|  | 18. | EXERCISE 2B: Q 1 to 6 . <br> Page: 30 |  |  |
|  | 19. | Absolute or numerical value of an integer. <br> Rules for operating on Integers( Addition and subtraction of integers, Examples 6 to <br> 8) Properties of addition of integers <br> Page: 31-35 |  |  |
|  | 20. | Multiplication of integers of integers (Examples 9 and 10) Rules and Properties of multiplication of integers <br> Page: 35-38 |  |  |

## NOTES


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| WEEK | [150] | UNIT \& TOPIC CONTENT INCLUDING PAGE NUMBER |  | SIGN CR/CT | DATE |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 6130 | 26. | Perfect Squares and Testing a perfect Square Page: 46-48 |  |  |  |
|  | 27. | EXERCISE 2D: Q 2 to 5 Page: 48 |  |  |  |
|  | 28. | Multiple Choice Question 2 Page: 48-50 |  |  |  |
|  | 29. | Unit 3: Factors and Multiples <br> Prime numbers , Dividend, Factors, ( Example 1 to 3) | Page: 54-57 |  |  |
|  | 30. | Tests of Divisibility, Multiples <br> Example 4 to 7 <br> page: 58-60 |  |  |  |

## NOTES

| WEEK | [150] | UNIT \& TOPIC CONTENT INCLUDING PAGE NUMBER | SIGN CR/CT | DATE |
| :---: | :---: | :---: | :---: | :---: |
| $7 / 30$ | 31. | EXERCISE 3A: Q 1 to 5 Page: 60 |  |  |
|  | 32. | EXERCISE 3A: Q 6 to 9 Page: 60 |  |  |
|  | 33. | EXERCISE 3A: Q 10 to 12 Page: 61 |  |  |
|  | 34. | $\begin{array}{ll} \text { Prime and Composite Numbers, Even and Odd Numbers } & \text { Page: 61-62 } \\ \text { Sieve of Eratosthenes, Twin and Triplet Prime } & \\ \text { EXERCISE 3B: Q } 1 \text { to } 4 & \text { Page: } 63-64 \end{array}$ |  |  |
|  | 35. | EXERCISE 3B: Q 5 to 8 Page: 64 |  |  |

## NOTES



## NOTES

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| WEEK | [150] | UNIT \& TOPIC CONTENT INCLUDING PAGE NUMBER | SIGN CR/CT | DATE |
| :---: | :---: | :---: | :---: | :---: |
| $9 / 30$ | 41. | HCF by Division Method. (Example: $2 \& 3$ )Page: 73-75 <br> EXERCISE 4A: Q 5$\quad$ Page: 76 |  |  |
|  | 42. | EXERCISE 4A: Q 6 to 8 Page: 76 |  |  |
|  | 43. | Least Common Multiple (LCM), Properties of LCM  <br> Examples 8 to 10 Page:76-77 <br> Exercise 4B: Q 1: Page:82 |  |  |
|  | 44. | LCM by Prime Factorization Method. (Example: 12 \& 13) Page: 77-78 Page: 82 |  |  |
|  | 45. | LCM by Division Method. (Example: 13 to 17) Page: 79-81 EXERCISE 4B: Q 3 Page: 82 |  |  |

## NOTES

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| WEEK | [150] | UNIT \& TOPIC CONTENT INCLUDING PAGE NUMBER | SIGN CR/CT | DATE |
| :---: | :---: | :---: | :---: | :---: |
| 10/30 | 46. | ```Relation between HCF & LCM of two numbers (Example: 18 to 19) Page: 81- 82 EXERCISE 4B: Q 4 to 9 Page: }8``` |  |  |
|  | 47. | EXERCISE 4B: Q 10 to 14 <br> Multiple Choice Question 4: Page: 88 |  |  |
|  | 48. | Revision 2: Page: 85 |  |  |
|  | 49. | Unit 5: RATIO AND RATE <br> Reviewing Fraction, Ration, Comparing ratios of common and different Terms <br> Examples 1 to 4: <br> Page: 88-90 |  |  |
|  | 50. | Expressing Ratio in Simplest Terms: Examples 5 to 13 Page : 91-94 |  |  |

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| WEEK | [150] | UNIT \& TOPIC CONTENT INCLUDING PAGE NUMBER | SIGN CR/CT | DATE |
| :---: | :---: | :---: | :---: | :---: |
| 11/30 | 51. | EXERCISE 5: Q 1 to 4 Page: 88 |  |  |
|  | 52. | Continued Ratio, Rate: Examples 14 to 16 <br> EXERCISE 5: Q 5 to 9 |  |  |
|  | 53. | EXERCISE 5: Q 10 to 14 Page: 97 |  |  |
|  | 54. | EXERCISE 5: Q 15 to 20 <br> Multiple Choice Question 5: <br> Page: 98-99 |  |  |
|  | 55. | Unit 6: FINANCIAL ARITMETIC PERCENTAGE <br> Percentage and converting a fraction into percentage (Examples 1 to4) <br> EXERCISE 6A: Q 1 \& 2 <br> Page: 102 to 104,107 |  |  |

## NOTES

| WEEK | [150] | UNIT \& TOPIC CONTENT INCLUDING PAGE NUMBER | SIGN CR/CT | DATE |
| :---: | :---: | :---: | :---: | :---: |
| 12/30 | 56. | Converting a percentage into fraction (Examples 5 to 12) Page: 105 to 106 |  |  |
|  | 57. | EXERCISE 6A: Q 3 to 7 Page: 107 |  |  |
|  | 58. | EXERCISE 6A: Q 8 to 11 Page: 107 |  |  |
|  | 59. | Expressing one quantity as a percentage of another quantity: Example 13 \& 14 Comparing two quantities by percentage (Example 15 \& 16) <br> EXERCISE 6B: Q 1 <br> Page: 108-111 |  |  |
|  | 60. | Percentage increases or decreases of a measure: (Example 17 \& 18) <br> EXERCISE 6B: Q 2 \& 3 <br> Page: 110-111 |  |  |

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| WEEK | [150] | UNIT \& TOPIC CONTENT INCLUDING PAGE NUMBER |  | SIGN CR/CT | DATE |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 13/30 | 61. | EXERCISE 6A: Q 4 to 7 | Page: 111-112 |  |  |
|  | 62. | EXERCISE 6A: Q 8 to 10 Multiple Choice Question 5: | Page: 112-113 |  |  |
|  | 63. | Unit 7: INTODUCTION TO <br> Sentences and Statements, Va Unlike Terms | A <br> gebraic Expressions, Co 20 |  |  |
|  | 64. | EXERCISE 7A: Q 1 to 3 | Page: 121-122 |  |  |
|  | 65. | EXERCISE 7A: Q 4 to 5 | Page: 122 |  |  |

## NOTES

| WEEK | [150] | UNIT \& TOPIC CONTENT INCLUDING PAGE NUMBER | SIGN CR/CT | DATE |
| :---: | :---: | :---: | :---: | :---: |
| 14/30 | 66. | Evaluation, Addition and Subtraction of Algebraic expressions Examples 1 to 7 <br> Page: 122-126 |  |  |
|  | 67. | EXERCISE 7B: Q 1 to 5 Page: 126-127 |  |  |
|  | 68. | EXERCISE 7B: Q 6 to 9 Page: 127 |  |  |
|  | 69. | EXERCISE 7B: Q 10 to 14 Page: 127 |  |  |
|  | 70. | Simplification: (Example 8 to 10) page\# 128-129 |  |  |

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| :---: | :---: | :---: | :---: | :---: | :---: |
| 15/30 | 71. | Number Sequence: (Examples 12 \& 13) | Page: 129-131 |  |  |
|  | 72. | EXERCISE 7B: Q 1 to 7 | Page: 131 |  |  |
|  | 73. | EXERCISE 7B: Q 8 to 11 | Page: 131-132 |  |  |
|  | 74. | EXERCISE 7B: Q 12 to 14 | Page: 132 |  |  |
|  | 75. | EXERCISE 7B: Q 15 to 16 Multiple Choice Questions 7 | Page: 132-133 |  |  |

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| WEEK | [150] | UNIT \& TOPIC CONTENT INCLUDING PAGE NUMBER | SIGN CR/CT | DATE |
| :---: | :---: | :---: | :---: | :---: |
| 16/30 | 76. | UNIT 8: LINEAR EQUATIONS (Algebraic Equations, Linear Algebraic Equations <br> Examples 1 to 4 <br> Page: 136-140 |  |  |
|  | 77. | Create an equation from a statement (Examples 5 \& 6) Page: 141-142 |  |  |
|  | 78. | Examples 7 to $9 \quad$ Page: 142-143 |  |  |
|  | 79. | EXERCISE 8: Q 1 \& $2 \quad$ Page: 144 |  |  |
|  | 80. | EXERCISE 8: Q 3 to $11 \quad$ Page: 144-145 MULTIPLE CHOICE QUESTIONS 8: |  |  |

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| WEEK | [150] | UNIT \& TOPIC CONTENT INCLUDING PAGE NUMBER | SIGN CR/CT | DATE |
| :---: | :---: | :---: | :---: | :---: |
| 17/30 | 81. | REVISION 4: Page: 146 |  |  |
|  | 82. | REVISION 4: Page: 147 |  |  |
|  | 83. | UNIT 9: GEOMETRY LINES AND ANGLES <br> Shapes and Lines, Points, Lines and Planes <br> Page: 150-153 |  |  |
|  | 84. | Ray, Straight Line, Three Dimensional Objects, Cuboid, Cube, cylinder Page: 153-157 |  |  |
|  | 85. | EXERCISE 9A: Q 1 to $6 \quad$ Page: 158-159 |  |  |

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| :---: | :---: | :---: | :---: | :---: | :---: |
| 19/30 | 91. | Perpendicular \& parallel Lines, Transversal, Exterior and Interior angles, Corresponding and Alternate angles, Properties of Parallel Lines Page: 167-170 |  |  |  |
|  | 92. | Rotational Symmetry (Example 1 to 4) | Page: 170-172 |  |  |
|  | 93. | EXERCISE 9C: Q 1 to 4 | Page:172-173 |  |  |
|  | 94. | EXERCISE 9C: Q 5 to 8 | Page:173-174 |  |  |
|  | 95. | EXERCISE 9C: Q 9 to 12 | Page:174 |  |  |

## NOTES

| WEEK | [150] | UNIT \& TOPIC CONTENT INCLUDING PAGE NUMBER | SIGN CR/CT | DATE |
| :---: | :---: | :---: | :---: | :---: |
| 20/30 | 96. | MULTPLE CHOICE QUESTION 9 Page:175-177 |  |  |
|  | 97. | UNIT 10: PRACTICAL GEOMETRY <br> Construction of a line segment of a given length, Steps of construction, Using a pair of compasses <br> EXERCISE 10A: Q 1 TO 4 <br> Page: 182-183 |  |  |
|  | 98. | Constructing a perpendicular(Example 1 \& 2) page:183-184 |  |  |
|  | 99. | Measurement and construction of angles, Bisecting an angle <br> To construct an angle of 60 and 30 (Example 3 \& 4) Page:185-186 |  |  |
|  | 100. | To construct an angle of 90, 45 and 120 (Example 5 to 7) Page:187-188 |  |  |

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| WEEK | [150] | UNIT \& TOPIC CONTENT INCLUDING PAGE NUMBER |  | SIGN CR/CT | DATE |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 21/30 | 101. | To construct an angle of 75 and 105, Page: 189-191 | ymmetry (Example 8 to 11) |  |  |
|  | 102. | EXERCISE 10B: Q 1 to 3 | Page: 192 |  |  |
|  | 103. | EXERCISE 10B: Q 4 to 6 | Page: 192 |  |  |
|  | 104. | EXERCISE 10B: Q 7 to 8 | Page: 193 |  |  |
|  | 105. | EXERCISE 10B: Q 9 to 11 <br> MULTPLE CHOICE QUESTION 10 | Page: 193-194 |  |  |

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| WEEK | [150] | UNIT \& TOPIC CONTENT INCLUDING PAGE NUMBER | SIGN CR/CT | DATE |
| 22/30 | 106. | UNIT 11: TRIANGLES <br> Triangle, Types of triangles <br> Page: 198-199 |  |  |
|  | 107. | EXERCISE 11A: Q 1 to 3 Page: 199 |  |  |
|  | 108. | EXERCISE 11A: Q 4 to 6 Page: 199-200 |  |  |
|  | 109. | Interior and Exterior angles of a triangle(Example 1 to 3) Page: 200-202 |  |  |
|  | 110. | Relation between exterior and opposite exterior angle, Properties of Isosceles triangle (Example 4 to 7) <br> Page: 202-205 |  |  |

## NOTES

| WEEK | [150] | UNIT \& TOPIC CONTENT INCLUDING PAGE NUMBER | SIGN CR/CT | DATE |
| :---: | :---: | :---: | :---: | :---: |
| 23/30 | 111. | EXERCISE 11A: Q 1 to 4 Page: 205 |  |  |
|  | 112. | EXERCISE 11A: Q 5 to 9 Page: 205-206 |  |  |
|  | 113. | EXERCISE 11A: Q 10 to 13 <br> MULTPLE CHOICE QUESTION 11 <br> Page: 206-207 |  |  |
|  | 114. | UNIT 12: PERIMETER AND AREA <br> Perimeter, Perimeter of Quadrilateral, Perimeter of Square, Perimeter of Rectangle, <br> Perimeter of Parallelogram, Perimeter of Triangle (Example 1) Page: 210-211 |  |  |
|  | 115. | Area, Measuring of area of squared paper page: 212-214 |  |  |

## NOTES



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| :---: | :---: | :---: | :---: | :---: | :---: |
| 25/30 | 121. | EXERCISE 12B: Q 10 to 13 | Page: 218 |  |  |
|  | 122. | EXERCISE 12B: Q 14 to 16 | Page: 219 |  |  |
|  | 123. | Areas of borders (Example 6 to 8) | Page: 219-220 |  |  |
|  | 124. | Areas of geometrical figures (Example 9 to 11) | Page: 221-222 |  |  |
|  | 125. | Areas of trapezium (Example 12) EXERCISE 12C: Q 1 to 3 | Page: 223-224 |  |  |

## NOTES

| WEEK | [150] | UNIT \& TOPIC CONTENT INCLUDING PAGE NUMBER | SIGN CR/CT | DATE |
| :---: | :---: | :---: | :---: | :---: |
| 26/30 | 126. | EXERCISE 12C: Q 4 to 5 Page: 224 |  |  |
|  | 127. | EXERCISE 12C: Q 6 \& 7 <br> MULTPLE CHOICE QUESTION 12 <br> Page: 224-226 |  |  |
|  | 128. | UNIT 13: VOLUME AND SURFACE AREA <br> Volume, Units of measurement of volume, Volume of cube( Example 1 \& 2) Page: 230-232 |  |  |
|  | 129. | Volume of cuboid( Example 3 to 7) <br> Page: 232-234 |  |  |
|  | 130. | Volume of cuboid( Example 8 to 12) Page: 234-236 |  |  |

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| :---: | :---: | :---: | :---: | :---: |
| 28/30 | 136. | REVISION 5 Page: 245 |  |  |
|  | 137. | UNIT 14: DATA HANDLING <br> Measures of central tendency( Mean, Median) (Examples 1 to 6) Page: 248-250 |  |  |
|  | 138. | Measures of central tendency( Mode ) (Examples 4 to 6) Page: 250 |  |  |
|  | 139. | EXERCISE 14A: Q 1 to 3 Page: 251 |  |  |
|  | 140. | EXERCISE 14A: Q 4 to 7 Page: 251-252 |  |  |

## NOTES

| WEEK | [150] | UNIT \& TOPIC CONTENT INCLUDING PAGE NUMBER | SIGN CR/CT | DATE |
| :---: | :---: | :---: | :---: | :---: |
| 29/30 | 141. | Numerical Data, Types of Data, Pictorial presentation of numerical data, Pictograph, Line graph, Bar graph, Page: 252-255 |  |  |
|  | 142. | Horizontal bar graph, Vertical bar graph, (Examples 7) Page: 255-258 |  |  |
|  | 143. | Multiple bar graph, Pie Chart Page: 259-261 |  |  |
|  | 144. | Introduction to probability, Sample space, Equally likely and not equally likely outcomes <br> Page: 262-263 |  |  |
|  | 145. | EXERCISE 14B: Q 1 to 3 Page: 264 |  |  |

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| WEEK | [150] | UNIT \& TOPIC CONTENT INCLUDING PAGE NUMBER |  | SIGN CR/CT | DATE |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 30/30 | 146. | EXERCISE 14B: Q 4 to 5 | Page: 265 |  |  |
|  | 147. | EXERCISE 14B: Q 6 to 8 | Page: 266 |  |  |
|  | 148. | EXERCISE 14B: Q9 to 11 | Page: 267 |  |  |
|  | 149. | EXERCISE 14B: Q 12 to 14 <br> MULTIPLE CHOICE QUESTION | Page: 267-269 |  |  |
|  | 150. | TEST PAPER | Page: 272-273 |  |  |

## NOTES

## © AFSS


[^0]:    ${ }^{1}$ In Sindh Region only
    ${ }^{2}$ In all regions except Sindh
    ${ }^{3}$ SRM: (Supplementary Reading Material)

