

Contents

	Title	Page
UNIT 1	Whole Numbers	1
	<ul style="list-style-type: none">• Numbers to 10 million• Place and value• Comparing numbers within 10 million• Rounding off numbers to nearest thousand• Order of operations• Word problems	
UNIT 2	Fractions	17
	<ul style="list-style-type: none">• Simplifying fractions• Ordering fractions• Adding and subtracting fractions• Multiplying of fractions• Converting improper fractions to mixed fractions and vice-versa• Word problems	
UNIT 3	Decimals	35
	<ul style="list-style-type: none">• Converting a fraction into decimal• Multiplying a decimal by tens, hundreds and thousands• Ordering decimals• Multiplication or division of decimals by whole numbers• Word problems	
UNIT 4	Ratio	50
	<ul style="list-style-type: none">• Expressing two or three quantities in a ratio form• Simplifying ratios/Equivalent ratios• Word problems	
UNIT 5	Percentage	68
	<ul style="list-style-type: none">• Expressing fractions and decimals as percentages• Converting percentage into decimals or fractions• Percentage of a quantity• Word problems	

	Title	Page
UNIT 6	Volume of Cube and Cuboid	86
	<ul style="list-style-type: none">• Building solids using Unit Cubes• Finding the volume of Cube and Cuboid• Finding volume of Liquid• Drawing cubes and cuboids on isometric grids• Drawing solid figures on isometric grids• Word problems	
UNIT 7	Measurements	103
	<ul style="list-style-type: none">• Conversion of metres into centimetres, kilometres and vice-versa• Conversion of grams into kilograms and vice-versa• Conversion of litres into millilitres and vice-versa• Word problems	
UNIT 8	Geometry (Angles)	112
	<ul style="list-style-type: none">• Measuring angles• Drawing angles• Finding unknown angles using various concepts(angles on a straight line, angles at a point, vertically opposite angles)	
UNIT 9	Area of a Triangle	127
	<ul style="list-style-type: none">• Identifying the base and height of a triangle• Finding the area of a triangle• Finding the shaded area	
UNIT 10	Average	136
	<ul style="list-style-type: none">• Finding the average of a set of values• Interpreting pie charts, bar graphs and finding average• Word problems	

	Title	Page
UNIT 11	Properties of Triangles	151
	<ul style="list-style-type: none">• Angles of a triangle• Equilateral Triangle, Isosceles Triangle and Right-Angled Triangle.• Drawing Triangles	
UNIT 12	Properties of 4-sided Figures	161
	<ul style="list-style-type: none">• Squares, Rectangles, Parallelograms, Rhombuses and Trapeziums• Drawing 4-sided Figures	
UNIT 13	Rate	177
	<ul style="list-style-type: none">• Calculating the rate of different quantities• Calculating 'speed'• Word problems	
	Specimen Test Paper	187
	Worked Solutions	205

(d) Nine million, eighty-four thousand and five -

(e) Three million, ten thousand and ten -

3

Fill in the blanks.

(a) The value of digit 8 in 438 069 is _____.

(b) In 439 657, the digit 9 stands for _____ tens.

(c) In 560 327, the digit 5 stands for _____ hundreds.

(d) In 1 639 549, the difference in values of digits 9 is _____.

(e) The value of digit 6 in 368 547 is equal to _____ tens \times 6.

(f) In 906 013, the digit 9 is in the _____ place.

Round off each of the following numbers.

(a) 6 408 547 (nearest thousand) \approx

(b) 999 099 (nearest ten thousand) \approx

(c) 5 432 769 (nearest thousand) \approx

(d) 473 698 (nearest ten) \approx

(e) 79 345 (nearest hundred) \approx

(f) 405 499 (nearest ten thousand) \approx

(a) John had \$36 439. He bought a car for \$23 160. Find the amount he had left, expressing your answer to the nearest ten dollars.

Write the following fractions in their simplest form.

(a) $\frac{12}{15} =$

(b) $\frac{10}{12} =$

(c) $\frac{21}{28} =$

(d) $\frac{8}{64} =$

(e) $\frac{27}{63} =$

(f) $\frac{96}{128} =$

(g) $\frac{275}{425} =$

(h) $\frac{24}{144} =$

Arrange the following fractions in ascending order.

(a) $\frac{51}{64}, \frac{13}{16}, \frac{13}{8}, \frac{5}{6}$

(b) $\frac{7}{11}, \frac{4}{14}, \frac{3}{13}, \frac{5}{17}$

(c) $\frac{9}{11}, \frac{5}{8}, \frac{2}{3}, \frac{10}{13}$

9

Divide the value of digit 6 by the value of digit 2 in the number 27.16.

The answer is _____.

Arrange the following numbers in ascending order.

(a)

2.037

20.37

0.237

0.2039

(b)

0.5152

0.0517

0.154

0.5003

Arrange the following numbers in descending order.

(a)

0.12

0.0127

0.021

0.21

(b)

0.01765

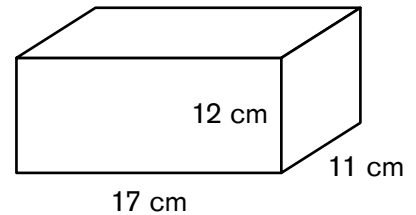
0.1

0.07165

0.0357

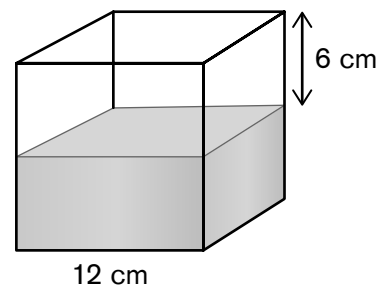
9

3-cm cubes are cut out from a rectangular solid of dimensions shown below. How many 3-cm cubes will be there?



10

Find the volume of water in the cubic tank below.



11

Water from the rectangular container is poured into a jug. If the container was filled to the brim, find the volume of water in the jug.

