HiSET Mathematics Prep 2019

A Comprehensive Review and Ultimate Guide to the HiSET Math Test

2 Full-Length HiSET Math Practice Exams

2,500 + Math problems with answers

A comprehensive review of everything on HiSET Math

Reza Nazari & Ava Ross

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By

Reza Nazari & Ava Ross

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Description

HiSET Mathematics Prep 2019 provides students with the confidence and math skills they need to succeed on the HiSET Math, building a solid foundation of basic Math topics with abundant exercises for each topic. It is designed to address the needs of HiSET test takers who must have a working knowledge of basic Math.

This comprehensive book with over 2,500 sample questions and 2 complete HiSET tests is all you need to fully prepare for the HiSET Math. It will help you learn everything you need to ace the math section of the HiSET.

There are more than 2,500 Math problems with answers in this book.

Effortless Math unique study program provides you with an in-depth focus on the math portion of the test, helping you master the math skills that students find the most troublesome.
This book contains most common sample questions that are most likely to appear in the mathematics section of the HiSET.

Inside the pages of this comprehensive HiSET Math book, students can learn basic math operations in a structured manner with a complete study program to help them understand essential math skills. It also has many exciting features, including:

- Dynamic design and easy-to-follow activities
- A fun, interactive and concrete learning process
- Targeted, skill-building practices
- Fun exercises that build confidence
- Math topics are grouped by category, so you can focus on the topics you struggle on
- All solutions for the exercises are included, so you will always find the answers
- 2 Complete HiSET Math Practice Tests that reflect the format and question types on HiSET

HiSET Mathematics Prep 2019 is an incredibly useful tool for those who want to review all topics being covered on the HiSET test. It efficiently and effectively reinforces learning outcomes through engaging questions and repeated practice, helping you to quickly master basic Math skills.

About the Author

Reza Nazari is the author of more than 100 Math learning books including:
– Math and Critical Thinking Challenges: For the Middle and High School Student
– HiSET Math in 30 Days.
– HiSET Math Workbook 2018 – 2019
– Effortless Math Education Workbooks
– and many more Mathematics books …

Reza is also an experienced Math instructor and a test–prep expert who has been tutoring students since 2008. Reza is the founder of Effortless Math Education, a tutoring company that has helped many students raise their standardized test scores—and attend the colleges of their dreams. Reza provides an individualized custom learning plan and the personalized attention that makes a difference in how students view math.

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Contents

Chapter 1: Whole Numbers 10

Place Value 11

Rounding 12

Whole Number Addition and Subtraction 13

Whole Number Multiplication and Division 14

Rounding and Estimates 15

Comparing Numbers 16

Answers of Worksheets – Chapter 1 17

Chapter 2: Fractions and Decimals 19

Simplifying Fractions 20

Adding and Subtracting Fractions 21

Multiplying and Dividing Fractions 22

Adding Mixed Numbers 23

Subtract Mixed Numbers 24

Multiplying Mixed Numbers 25

Dividing Mixed Numbers 26

Comparing Decimals 27

Rounding Decimals 28

Adding and Subtracting Decimals 29

Multiplying and Dividing Decimals 30

Converting Between Fractions, Decimals and Mixed Numbers 31

Factoring Numbers 32

Greatest Common Factor 33

Least Common Multiple 34

Divisibility Rules 35

Answers of Worksheets – Chapter 2 36

Chapter 3: Real Numbers and Integers 42

Adding and Subtracting Integers 43

Multiplying and Dividing Integers 44

Ordering Integers and Numbers 45

Arrange, Order, and Comparing Integers 46

Order of Operations 47
Mixed Integer Computations 48
Integers and Absolute Value 49
Answers of Worksheets – Chapter 3 50
Chapter 4: Proportions and Ratios 53
Writing Ratios 54
Simplifying Ratios 55
Create a Proportion 56
Similar Figures 57
Simple Interest 58
Ratio and Rates Word Problems 59
Answers of Worksheets – Chapter 4 60
Chapter 5: Percent 62
Percentage Calculations 63
Converting Between Percent, Fractions, and Decimals 64
Percent Problems 65
Find What Percentage a Number Is of Another 66
Find a Percentage of a Given Number 67
Percent of Increase and Decrease 68
Markup, Discount, and Tax 69
Answers of Worksheets – Chapter 5 70
Chapter 6: Algebraic Expressions 73
Expressions and Variables 74
Simplifying Variable Expressions 75
Simplifying Polynomial Expressions 76
Translate Phrases into an Algebraic Statement 77
The Distributive Property 78
Evaluating One Variable 79
Evaluating Two Variables 80
Combining like Terms 81
Answers of Worksheets – Chapter 6 82
Chapter 7: Equations 84

One–Step Equations 85
One–Step Equation Word Problems 86
Two–Step Equations 87
Two–Step Equation Word Problems 88
Multi–Step Equations 89
Answers of Worksheets – Chapter 7 90
Chapter 8: Inequalities 92
Graphing Single–Variable Inequalities 93
One–Step Inequalities 94
Two–Step Inequalities 95
Multi–Step Inequalities 96
Answers of Worksheets – Chapter 8 97
Chapter 9: Linear Functions 100
Finding Slope 101
Graphing Lines Using Slope–Intercept Form 102
Graphing Lines Using Standard Form 103
Writing Linear Equations 104
Graphing Linear Inequalities 105
Finding Midpoint 106
Finding Distance of Two Points 107
Slope and Rate of Change 108
Find the Slope, x–intercept and y–intercept 109
Write an Equation from a Graph 110
Answers of Worksheets – Chapter 9 111
Chapter 10: Polynomials 116
Classifying Polynomials 117
Writing Polynomials in Standard Form 118
Simplifying Polynomials 119
Adding and Subtracting Polynomials 120
Multiplying Monomials 121
Multiplying and Dividing Monomials 122
Multiplying a Polynomial and a Monomial 123

Multiplying Binomials 124
Factoring Trinomials 125
Operations with Polynomials 126
Answers of Worksheets – Chapter 10 127
Chapter 11: Systems of Equations 131
Solving Systems of Equations by Substitution 132
Solving Systems of Equations by Elimination 133
Systems of Equations Word Problems 134
Answers of Worksheets – Chapter 11 135
Chapter 12: Exponents and Radicals 137
Multiplication Property of Exponents 138
Division Property of Exponents 139
Powers of Products and Quotients 140
Zero and Negative Exponents 141
Negative Exponents and Negative Bases 142
Writing Scientific Notation 143
Square Roots 144
Answers of Worksheets – Chapter 12 145
Chapter 13: Statistics 148
Mean, Median, Mode, and Range of the Given Data 149
Box and Whisker Plots 150
Bar Graph 151
Stem–And–Leaf Plot 152
The Pie Graph or Circle Graph 153
Scatter Plots 154
Probability Problems 155
Answers of Worksheets – Chapter 13 156
Chapter 14: Geometry 159
The Pythagorean Theorem 160
Area of Triangles 161
Perimeter of Polygons 162
Area and Circumference of Circles 163

Area of Squares, Rectangles, and Parallelograms 164
Area of Trapezoids 165
Answers of Worksheets – Chapter 14 166
Chapter 15: Solid Figures 167
Volume of Cubes 168
Volume of Rectangle Prisms 169
Surface Area of Cubes 170
Surface Area of a Rectangle Prism 171
Volume of a Cylinder 172
Surface Area of a Cylinder 173
Answers of Worksheets – Chapter 15 174
Chapter 16: Functions Operations 175
Function Notation 176
Adding and Subtracting Functions 177
Multiplying and Dividing Functions 178
Composition of Functions 179
Answers of Worksheets – Chapter 16 180
HiSET Test Review 182
HiSET Mathematics Practice Tests 184
HiSET Mathematics Practice Test 1 189
HiSET Mathematics Practice Test 2 206
HiSET Mathematics Practice Tests Answers and Explanations 225

Chapter 1: Whole Numbers

Topics that you'll learn in this chapter:

- ✓ Place Value
- ✓ Rounding
- ✓ Whole Number Addition and Subtraction
- ✓ Whole Number Multiplication and Division
- ✓ Rounding and Estimates
- ✓ Comparing Numbers

"If people do not believe that mathematics is simple, it is only because they do not realize how complicated life is." — John von Neumann

Place Value

Helpful Hints

The value of the place, or position, of a digit in a number.

For the number 3,684.26

Decimal Place Value Chart													
Millions	Hundred thousands	Ten thousands	Thousands	Hundreds	Tens	Ones	Decimal point	Tenths	Hundredths	Thousandths	Ten-thousandths	Hundred thousandths	Millionths
			3	6	8	4	.	2	6				

Example:

In 456, the 5 is in "tens" position.

Write each number in expanded form.

1) Thirty–five 30 + 5

2) Sixty–seven ___ + ___

3) Forty–two ___ + ___

4) Eighty–nine ___ + ___

5) Ninety–one ___ + ___

Circle the correct one.

6) The 2 in 72 is in the ones place tens place hundreds place

7) The 6 in 65 is in the ones place tens place hundreds place

8) The 2 in 342 is in the ones place tens place hundreds place

9) The 5 in 450 is in the ones place tens place hundreds place

10) The 3 in 321 is in the ones place tens place hundreds place

Rounding

Helpful Hints	– Rounding is putting a number up or down to the nearest whole number or the nearest hundred, etc.	**Example:** 64 rounded to the nearest ten is 60, because 64 is closer to 60 than to 70.

Round each number to the underlined place value.

1) 9̲72
2) 2,9̲95
3) 3̲64
4) 8̲1
5) 5̲5
6) 3̲34
7) 1,2̲03
8) 9.5̲7
9) 7.4̲84
10) 9.1̲4
11) 3̲9
12) 9̲,123
13) 3,45̲2
14) 5̲69
15) 1,2̲30
16) 9̲8
17) 9̲3
18) 3̲7
19) 4̲93
20) 2,9̲23
21) 9̲,845
22) 55̲5
23) 9̲39
24) 6̲9

Whole Number Addition and Subtraction

Helpful Hints	1– Line up the numbers. 2– Start with the unit place. (ones place) 3– Regroup if necessary. 4– Add or subtract the tens place. 5– Continue with other digits.	**Example:** 231 + 120 = 351 292 – 90 = 202

Solve.

1) A school had 891 students last year. If all last year students and 338 new students have registered for this year, how many students will there be in total?

2) Alice has just started her first job after graduating from college. Her yearly income is $33,000 per year. Alice's father income is $56,000 per year and her mother's income is $49,000. What is yearly income of Alice and her parent altogether?

3) Tom had $895 dollars in his saving account. He gave $235 dollars to his sister, Lisa. How much money does he have left?

4) Emily has 830 marbles, Daniel has 970 marbles, and Ethan has 230 marbles less than Daniel. How many marbles do they have in all?

Find the missing number.

5) 890 – ..... = 300

6) 1000 – ..... = 200

7) ..... – 4000 = 92000

8) 60000 – 51000 = ...

9) 3400 – ..... = 3200

10) 33000 – 5000 = ...

Whole Number Multiplication and Division

Helpful Hints

Multiplication:

– Learn the times tables first!

– For multiplication, line up the numbers you are multiplying.

– Start with the ones place.

– Continue with other digits

– A typical division problem:

Dividend ÷ Divisor = Quotient

Division:

– In division, we want to find how many times a number (divisor) is contained in another number (dividend).

– The result in a division problem is the quotient.

Example:

200 × 90 = 18,000

18,000 ÷ 90 = 200

Multiply and divided.

1) 340 ÷ 8 =
2) 1800 ÷ 20 =
3) 50000 ÷ 10 =
4) 966 ÷ 30 =
5) 201 × 20 =
6) 400 × 50 =
7) 400 × 90 =
8) 888 × 90 =
9) 80 × 80 =
10) 122 × 12 =
11) 609 × 8 =
12) 220 × 12 =

13) A group of 235 students has collected $8,565 for charity during last month. They decided to split the money evenly among 5 charities. How much will each charity receive?

14) Maria and her two brothers have 9 boxes of crayons. Each box contains 56 crayons. How many crayons do Maria and her two brothers have?

Rounding and Estimates

Helpful Hints

– Rounding and estimating are math strategies used for approximating a number.

– To estimate means to make a rough guess or calculation.

– To round means to simplify a known number by scaling it slightly up or down.

Example:

$73 + 69 \approx 140$

Estimate the sum by rounding each added to the nearest ten.

1) 55 + 9
2) 25 + 12
3) 83 + 7
4) 32 + 37
5) 13 + 74
6) 34 + 11
7) 39 + 77
8) 25 + 4
9) 61 + 73
10) 64 + 59
11) 14 + 68
12) 82 + 12
13) 43 + 66
14) 45 + 65
15) 553 + 232
16) 418 + 846
17) 582 + 277
18) 2771 + 1651
19) 7436 + 3575
20) 1542 + 8738
21) 3843 + 6579
22) 4722 + 8186
23) 2419 + 7224
24) 6768 + 3169

Comparing Numbers

Helpful Hints	Comparing:	Example:
	Equal to =	
	Less than <	56 > 35
	Greater than >	
	Greater than or equal ≥	
	Less than or equal ≤	

Use > = <.

1) 35	67	8) 90	56
2) 89	56	9) 94	98
3) 56	35	10) 48	23
4) 27	56	11) 24	54
5) 34	34	12) 89	89
6) 28	45	13) 50	30
7) 89	67	14) 20	20

Use less than, equal to or greater than.

15) 23 _____ 34	22) 56 _____ 43
16) 89 _____ 98	23) 34 _____ 34
17) 45 _____ 25	24) 92 _____ 98
18) 34 _____ 32	25) 38 _____ 46
19) 91 _____ 91	26) 67 _____ 58
20) 57 _____ 55	27) 88 _____ 69
21) 85 _____ 78	28) 23 _____ 34

Answers of Worksheets – Chapter 1

Place Value

1) 30 + 5
2) 60 + 7
3) 40 + 2
4) 80 + 9
5) 90 + 1
6) ones place
7) tens place
8) ones place
9) tens place
10) hundreds place

Rounding

1) 1000
2) 3000
3) 360
4) 80
5) 60
6) 330
7) 1200
8) 9.6
9) 7.5
10) 9.1
11) 40
12) 9000
13) 3,450
14) 600
15) 1,200
16) 100
17) 90
18) 40
19) 490
20) 2,900
21) 10,000
22) 560
23) 900
24) 70

Whole Number Addition and Subtraction

1) 1229
2) 138000
3) 660
4) 2540
5) 590
6) 800
7) 96000
8) 9000
9) 200
10) 28000

Whole Number Multiplication and Division

1) 42.5
2) 90
3) 5000
4) 32.2
5) 4020
6) 20000
7) 36000
8) 79920
9) 6400
10) 1464
11) 4872
12) 2640
13) 1713
14) 504