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SSAT Upper Level Math Workbook

2020 - 2021

The Most Comprehensive Review
for the Math Section of the SSAT Upper Level Test

Recommended by Test Prep Experts

Reza Nazari & Ava Ross

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By

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Description

SSAT Upper Level Math Workbook 2020 – 2021, which reflects the 2020 – 2021 test guidelines and topics, provides students with the confidence and math skills they need to succeed on the SSAT Upper Level Math, offering a solid foundation of basic Math topics with abundant exercises for each topic. It is designed to address the needs of SSAT Upper Level test takers who must have a working knowledge of basic Math.

This comprehensive workbook with over 2,500 sample questions and 2 full-length SSAT Upper Level Math tests is all you need to fully prepare for the SSAT Upper Level Math. It will help you learn everything you need to ace the math section of the SSAT Upper Level test.

This SSAT Upper Level Math workbook's new edition has been updated to replicate questions appearing on the most recent SSAT Upper Level math tests. Upon completion of this workbook, you will have a solid foundation and sufficient practice to ace the ISEE Upper Level Math test. **This workbook is your ticket to scoring higher on SSAT Upper Level Math.**

Inside the pages of this comprehensive SSAT Upper Level Math workbook, you can learn basic math operations in a structured manner with a complete study program to help you understand essential math skills. It also has many exciting features, including:

- ✓ Content 100% aligned with the 2020 SSAT Upper Level® test
- ✓ Written by SSAT Upper Level® Math tutors and test experts
- ✓ Complete coverage of all SSAT Upper Level Math concepts and topics which you will be tested
- ✓ Over 2,500 additional SSAT Upper Level math practice questions in both multiple-choice and grid-in formats with answers grouped by topic, so you can focus on your weak areas
- ✓ Abundant Math skill building exercises to help test-takers approach different question types that might be unfamiliar to them
- ✓ Exercises on different SSAT Upper Level Math topics such as integers, percent, equations, polynomials, exponents and radicals
- ✓ 2 full-length practice tests (featuring new question types) with detailed answers

This SSAT Upper Level Math Workbook and other Effortless Math Education books are used by thousands of students each year to help them review core content areas, brush-up in math, discover their strengths and weaknesses, and achieve their best scores on the SSAT Upper Level test.

Name: ……	Date: ……

Homework: #…..

Percent Problems

Solve each problem.

1) What is 5 percent of 300? ____
2) What is 15 percent of 600? ____
3) What is 12 percent of 450? ____
4) What is 30 percent of 240? ____
5) What is 60 percent of 850? ____
6) 63 is what percent of 300? ____%
7) 80 is what percent of 400? ____%
8) 70 is what percent of 700? ____%
9) 84 is what percent of 600? ___%
10) 90 is what percent of 300? ___%
11) 24 is what percent of 150? ___%
12) 12 is what percent of 80? ____%
13) 4 is what percent of 50? ____%
14) 110 is what percent of 500? __%
15) 16 is what percent of 400? __%
16) 39 is what percent of 300? ___%
17) 56 is what percent of 200? ___%
18) 30 is what percent of 500? ___%
19) 84 is what percent of 700? ___%
20) 40 is what percent of 500? __%
21) 26 is what percent of 100? __ %
22) 45 is what percent of 900? __%
23) 60 is what percent of 400? ____%
24) 18 is what percent of 900? ____%
25) 75 is what percent of 250? ____%
26) 27 is what percent of 900? ____%
27) 49 is what percent of 700? ____%
28) 81 is what percent of 900? ____%
29) 90 is what percent of 500? ____%
30) 82 is 20 percent of what number? ____
31) 14 is 35 percent of what number? ____
32) 90 is 6 percent of what number? ____
33) 80 is 40 percent of what number? ____
34) 90 is 15 percent of what number? ____
35) 28 is 7 percent of what number? ____
36) 54 is 18 percent of what number? ____
37) 72 is 24 percent of what number? ____

Name:	Date: .....

Homework: #.....

Percent Problems - Answers

Solve each problem.

1) What is 5 percent of 300? 15
2) What is 15 percent of 600? 90
3) What is 12 percent of 450? 54
4) What is 30 percent of 240? 72
5) What is 60 percent of 850? 510
6) 63 is what percent of 300? 21%
7) 80 is what percent of 400? 20%
8) 70 is what percent of 700? 10%
9) 84 is what percent of 600? 14%
10) 90 is what percent of 300? 30%
11) 24 is what percent of 150? 16%
12) 12 is what percent of 80? 15%
13) 4 is what percent of 50? 8%
14) 110 is what percent of 500? 22%
15) 16 is what percent of 400? 4%
16) 39 is what percent of 300? 13%
17) 56 is what percent of 200? 28%
18) 30 is what percent of 500? 6%
19) 84 is what percent of 700? 12%
20) 40 is what percent of 500? 8%
21) 26 is what percent of 100? 26%
22) 45 is what percent of 900? 5%
23) 60 is what percent of 400? 15%
24) 18 is what percent of 900? 2%
25) 75 is what percent of 250? 30%
26) 27 is what percent of 900? 3%
27) 49 is what percent of 700? 7%
28) 81 is what percent of 900? 9%
29) 90 is what percent of 500? 18%
30) 82 is 20 percent of what number? 410
31) 14 is 35 percent of what number? 40
32) 90 is 6 percent of what number? 1,500
33) 80 is 40 percent of what number? 200
34) 90 is 15 percent of what number? 600
35) 28 is 7 percent of what number? 400
36) 54 is 18 percent of what number? 300
37) 72 is 24 percent of what number? 300

Name: ……	Date: ……

Homework: #.....

Percent of Increase and Decrease

Solve each percent of change word problem.

1) Bob got a raise, and his hourly wage increased from $\$24$ to $\$36$. What is the percent increase? _____ %
2) The price of gasoline rose from $\$2.20$ to $\$2.42$ in one month. By what percent did the gas price rise? _____ %
3) In a class, the number of students has been increased from 30 to 39. What is the percent increase? _____ %
4) The price of a pair of shoes increases from $\$28$ to $\$35$. What is the percent increase? ___ %
5) In a class, the number of students has been decreased from 24 to 18. What is the percentage decrease? _____ %
6) Nick got a raise, and his hourly wage increased from $\$50$ to $\$55$. What is the percent increase? _____ %
7) A coat was originally priced at $80. It went on sale for $70.40. What was the percent that the coat was discounted? _____ %
8) The price of a pair of shoes increases from $\$8$ to $\$12$. What is the percent increase? ___ %
9) A house was purchased in 2002 for $180,000. It is now valued at $144,000. What is the rate (percent) of depreciation for the house?_____ %
10) The price of gasoline rose from $\$3.00$ to $\$3.15$ in one month. By what percent did the gas price rise? _____ %

Name: ……	Date: ……

Homework: #…..

Percent of Increase and Decrease - Answers

Solve each percent of change word problem.

1) Bob got a raise, and his hourly wage increased from $24 to $36. What is the percent increase? 50%

2) The price of gasoline rose from $2.20 to $2.42 in one month. By what percent did the gas price rise? 10%

3) In a class, the number of students has been increased from 30 to 39. What is the percent increase? 30%

4) The price of a pair of shoes increases from $28 to $35. What is the percent increase? 25%

5) In a class, the number of students has been decreased from 24 to 18. What is the percentage decrease? 25%

6) Nick got a raise, and his hourly wage increased from $50 to $55. What is the percent increase? 10%

7) A coat was originally priced at $80. It went on sale for $70.40. What was the percent that the coat was discounted? 12%

8) The price of a pair of shoes increases from $8 to $12. What is the percent increase? 50%

9) A house was purchased in 2002 for $180,000. It is now valued at $144,000. What is the rate (percent) of depreciation for the house? 20%

10) The price of gasoline rose from $3.00 to $3.15 in one month. By what percent did the gas price rise? 5%

Name: ……. **Date:** ……

Homework: #.....

Discount, Tax and Tip

Find the missing values.

1) Original price of a computer: $400
   Tax: 5%, Selling price: $_____

2) Original price of a sofa: $600
   Tax: 12%, Selling price: $_____

3) Original price of a table: $550
   Tax: 18%, Selling price: $_____

4) Original price of a cell phone: $700
   Tax: 20%, Selling price: $_____

5) Original price of a printer: $400
   Tax: 22%, Selling price: $_____

6) Original price of a computer: $600
   Tax: 15%, Selling price: $_____

7) Restaurant bill: $24.00
   Tip: 25%, Final amount: $_____

8) Original price of a cell phone: $300
   Tax: 8%, Selling price: $_____

9) Original price of a carpet: $800
   Tax: 25%, Selling price: $_____

10) Original price of a camera: $200
    Discount: 35%, Selling price: $_____

11) Original price of a dress: $500
    Discount: 10%, Selling price: $_____

12) Original price of a monitor: $400
    Discount: 5%, Selling price: $_____

13) Original price of a laptop: $900
    Discount: 20%, Selling price: $_____

14) Restaurant bill: $54.00
    Tip: 20%, Final amount: $_____

Name: …… **Date:** ……

Homework: #…..

Discount, Tax and Tip - Answers

Find the missing values.

1) Original price of a computer: $400
   Tax: 5%, Selling price: $420

2) Original price of a sofa: $600
   Tax: 12%, Selling price: $672

3) Original price of a table: $550
   Tax: 18%, Selling price: $649

4) Original price of a cell phone: $700
   Tax: 20%, Selling price: $840

5) Original price of a printer: $400
   Tax: 22%, Selling price: $488

6) Original price of a computer: $600
   Tax: 15%, Selling price: $690

7) Restaurant bill: $24.00
   Tip: 25%, Final amount: $30.00

8) Original price of a cell phone: $300
   Tax: 8%, Selling price: $324

9) Original price of a carpet: $800
   Tax: 25%, Selling price: $1,000

10) Original price of a camera: $200
    Discount: 35%, Selling price: $130

11) Original price of a dress: $500
    Discount: 10%, Selling price: $450

12) Original price of a monitor: $400
    Discount: 5%, Selling price: $380

13) Original price of a laptop: $900
    Discount: 20%, Selling price: $720

14) Restaurant bill: $54.00
    Tip: 20%, Final amount: $64.80