



Math

Final Exam Study Guide

Grade: 5

Topic 2: Use Models and Strategies to Add and Subtract Decimals (Lessons 2-1 and 2-3 are NOT Included)

2-2 Estimate Sums and Differences of Decimals (Pages 49 - 52)

-Use Rounding or Compatible Numbers to estimate sums and differences.

Round each addend to the Round each number to the nearest nearest hundred. whole number.

237.5 + 345.1 is about 500. 22.84 – 13.97 is about 9.

2-4 Use Strategies to Add Decimals (Pages 57 - 60)

-Add Decimals to the Hundredths using partial sums.

	tens	ones	•	tenths	hundredths
	2	1		3	9
+	2	1	•	5	9
				1	8
				8	
		2	•		
	4	0	•		
	4	2	•	9	8



2-5 Use Strategies to Subtract Decimals (Pages 61 - 64)

-Subtract Decimals to the Hundredths using partial differences.

Find
$$5.92 - 4.37$$

$$\begin{array}{r}
5.92 \\
-4.00 \\
\hline
1.92 \\
-0.30 \\
\hline
1.62 \\
-0.07 \\
\hline
1.55
\end{array}$$
 subtract 3 tenths
$$\begin{array}{r}
5.92 - 4.37 = 1.55
\end{array}$$

2-6 Problem Solving: Model with Math (Pages 65 - 68)

- Use prior math knowledge and equations or bar diagrams to solve problems

Monica wants to buy all of the art supplies shown on this sign. She has a coupon for \$5.50 off the cost of her purchases. What will Monica's total cost be after the discount?



What do I need to do to solve the problem?

I need to find Monica's cost for the art supplies.

$$$59.95 + $24.95 + $9.75 + $13.50 = $108.15$$

The total cost before the discount is \$108.15.

$$$108.15 - $5.50 = $102.65$$

Monica's cost after the discount is \$102.65.





Topic 3: Fluently Multiply Multi-Digit Whole Numbers

3-1 Multiply Greater Numbers by Powers of 10 (Pages 81 to 84)

 Use Place-Value Understandings and Patterns to mentally multiply whole numbers by powers of 10

Instead of using the standard form, write each power of 10 using exponents.

$$32 \times 1 = 32 \times 10^{0} = 32$$

 $32 \times 10 = 32 \times 10^{1} = 320$
 $32 \times 100 = 32 \times 10^{2} = 3,200$
 $32 \times 1,000 = 32 \times 10^{3} = 32,000$
 $32 \times 10,000 = 32 \times 10^{4} = 320,000$

Pattern

The exponent tells how many additional zeros the product will end with.

3-2 Estimate Products (Pages 85 - 88)

-Use Rounding and Compatible Numbers to Estimate Products

$$43 \times 108 = ?$$
 $less \setminus less \int$
 $40 \times 100 = 4,000$

4,000 is an underestimate.





3-3 Multiply by 1-Digit Numbers (Pages 89 - 92)

- Use Place-value and the standard algorithm to multiply multi-digit numbers by 1-digit numbers.

Find 4×156 .

2 2 Think:

1 5 6 4×6 ones = 24; 24 is 2 tens 4 ones.

 \times 4 × 5 tens = 20 tens; 20 tens + 2 tens = 22 tens; 22 tens is 2 hundreds 2 tens.

6.2.4 4×1 hundred = 4 hundreds; 4 hundreds + 2 hundreds = 6 hundreds.

3-4 Multiply 2-Digit by 2-Digit Numbers

-Use the expanded and the standard algorithm to multiply 2-digit by 2-digit numbers.

37

888

Use the Standard Algorithm

Step 1: Multiply by the ones. Step 2: Multiply by the tens.

37 × 24

 $\frac{\times 24}{148}$ $\times 24$ $\times 148$

+ 740 Add the partial products.



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3-5 Multiply 3-Digit by 2-Digit Numbers (Pages 97 to 100)

-Multiply 3-digit by 2-digit numbers by using the standard algorithm

$$892$$
 $900 \times 20 = 18,000$
 \times 18
 $\overline{7136}$ $16,056$ is close to 18,000,
 $+8920$ so, my answer is reasonable.

❖ Note

A Revision worksheet will be provided before the exam that will include all types of questions to expect on the final exam.

Please Review

- All the problems done in-class and assigned as homework.
- Worksheets / Quizzes
- Additional Practice on Savvas

Good Luck!