

Massachusetts MCAS Grade 5 Math Workbook

Practice Problems & Exercises with Answer Key

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LET'S PRACTICE!

Grade 5 Math Workbook!



Hi there, math superstar! ★

This workbook is packed with **practice problems** to help you become a math champion! Each topic has a quick review, warm-up problems, lots of practice, and fun challenges.

- ✓ Practice makes you **stronger**!
- ✓ Take your time and **show your work**!
- ✓ Check your answers at the **back of the book**!

Grab a pencil and let's get started! 🚀

“ The more you practice, the better you get!
I believe in you! ”



CHAPTER

1

Place Value & Decimals

★ *What's Inside* ★

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★ 1.1 Place Value Relationships ★

★ Place Value Relationships ★

Quick Review: Place Value Relationships

Each place in a number is **10 times** the value of the place to its right and **one-tenth** ($\frac{1}{10}$) the value of the place to its left.

- Whole-number places: ... thousands, hundreds, tens, ones.
- Decimal places: tenths, hundredths, thousandths.
- Moving **left** → value gets $10\times$ bigger. Moving **right** → value gets $10\times$ smaller.

Example: In 5,555.555, every digit is 5 but each has a different value:

5,000 500 50 5 . 0.5 0.05 0.005

Each value is 10 times the one to its right.

Warm-Up

Name the Place

What place is the underlined digit in?

1. 7,342 _____

2. 5,819 _____

3. 4.623 _____

4. 0.391 _____

5. 12.507 _____

6. 3.456 _____



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 What's the Value?

Write the **value** of the underlined digit.

7. 4,712

11. 0.937

8. 6,308

12. 1.425

9. 9,051

13. 7.008

10. 2,846

14. 5.555

 10 Times or $\frac{1}{10}$?

15. In 2,255, the 2 in the **thousands** place is how many times the value of the 2 in the **hundreds** place?

16. In 0.77, the 7 in the **hundredths** place is what fraction of the 7 in the **tenths** place?

17. In 6,600, how many times greater is the 6 in the **thousands** place than the 6 in the **hundreds** place?

18. In 44.4, the 4 in the **tenths** place is what fraction of the 4 in the **ones** place?

19. In 3,030, the 3 in the **thousands** place is how many times the value of the 3 in the **tens** place?

20. In 8.088, the 8 in the **thousandths** place is what fraction of the 8 in the **ones** place?



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 True or False?

21. A digit in the hundreds place is 10 times the value of the same digit in the tens place. True ☐

False ☐

22. In 999, all three digits have the same value. True ☐ False ☐

23. The 4 in 0.04 is $\frac{1}{10}$ of the 4 in 0.4. True ☐ False ☐

24. In 5.55, the 5 in the hundredths place is 100 times the 5 in the ones place. True ☐ False ☐

 Word Problems

25. Maya writes the number 7,770.77. How many times greater is the 7 in the thousands place than the 7 in the tens place?

Answer: _____ times

26. A penny is worth \$0.01 and a dime is worth \$0.10. How many times more is a dime worth than a penny?

Answer: _____ times

27. Carlos says the 3 in 3.3 has the same value in both places because it's the same digit. Is he correct? Explain.

Answer: _____

28. In the number 4,444.44, how many times greater is the 4 in the thousands place than the 4 in the hundredths place?

Answer: _____ times



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 Challenge!

29. In 9,999.999, how many times greater is the 9 in the **thousands** place than the 9 in the **thousandths** place? _____

30. I am thinking of a number where the digit 6 appears twice. One 6 is worth 600 and the other is worth 0.06. How many times greater is the first 6 than the second? _____

31. Write a number where the digit 2 appears in both the tens place and the tenths place. Then explain how the two 2s are related.

 You just mastered the $\times 10$ secret
of place value — awesome work! 



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CHAPTER

2

Operations with Decimals

★ *What's Inside* ★

2.1 *Add Decimals* 7



★ 2.1 Add Decimals ★

★ Add Decimals ★

Quick Review: Adding Decimals

To add decimals, **line up the decimal points** so each place value is in the correct column. Then add from right to left, just like whole numbers.

- **Annex zeros** so both numbers have the same number of decimal places.
- **Regroup** (carry) when a column totals 10 or more.
- **Bring down** the decimal point into the answer.

Example: $5.6 + 3.87 \rightarrow 5.60 + 3.87 = 9.47$

Estimate to check: $6 + 4 = 10$. Since 9.47 is close to 10, the answer is reasonable.

Warm-Up

Add (Same Number of Decimal Places)

1. $2.31 + 4.56 =$ _____

4. $0.18 + 0.71 =$ _____

2. $1.24 + 3.65 =$ _____

5. $3.05 + 4.92 =$ _____

3. $5.40 + 2.30 =$ _____

6. $6.50 + 1.25 =$ _____



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 Line Up and Add **Different Numbers of Decimal Places**

Annex zeros if needed, then add.

7. $4.7 + 2.35 =$ _____

10. $12.9 + 3.05 =$ _____

8. $8 + 1.64 =$ _____

11. $5 + 0.78 =$ _____

9. $0.6 + 0.38 =$ _____

12. $9.1 + 4.86 =$ _____

 Add with Regrouping **Show Your Work**

Add using the standard algorithm. Show regrouping.

13. $6.78 + 4.56 =$ _____

14. $15.87 + 9.65 =$ _____

15. $7.96 + 3.48 + 2.07 =$ _____



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 True or False?

16. $3.4 + 2.6 = 6.0$

True ☐ False ☐17. When adding $7.5 + 0.32$, you should write 7.5 as 7.50.True ☐ False ☐

18. $0.09 + 0.01 = 0.010$

True ☐ False ☐

19. $4.25 + 5.75 = 10.00$

True ☐ False ☐ Word Problems

20. A book costs \$7.85 and a magazine costs \$3.50. How much do they cost together?

Answer: _____

21. Marcus jogged 2.75 km in the morning and 1.8 km in the afternoon. How far did he jog in all?

Answer: _____ km

22. Three boxes weigh 5.4 kg, 3.25 kg, and 2.15 kg. What is the total weight?

Answer: _____ kg

 Challenge!

23. The sum of two decimals is 8.00. One of them is 5.37. What is the other? _____

24. Kai bought three items at the store for \$4.65, \$2.80, and \$1.55. What was the total cost?

25. Find three different decimals (each with two decimal places) that add up to exactly 1.00.

_____ + _____ + _____ = 1.00

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★ *You're adding decimals like a pro!*
Keep those decimal points lined up! ★

PREVIEW



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- ✓ *Hundreds of practice problems*
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