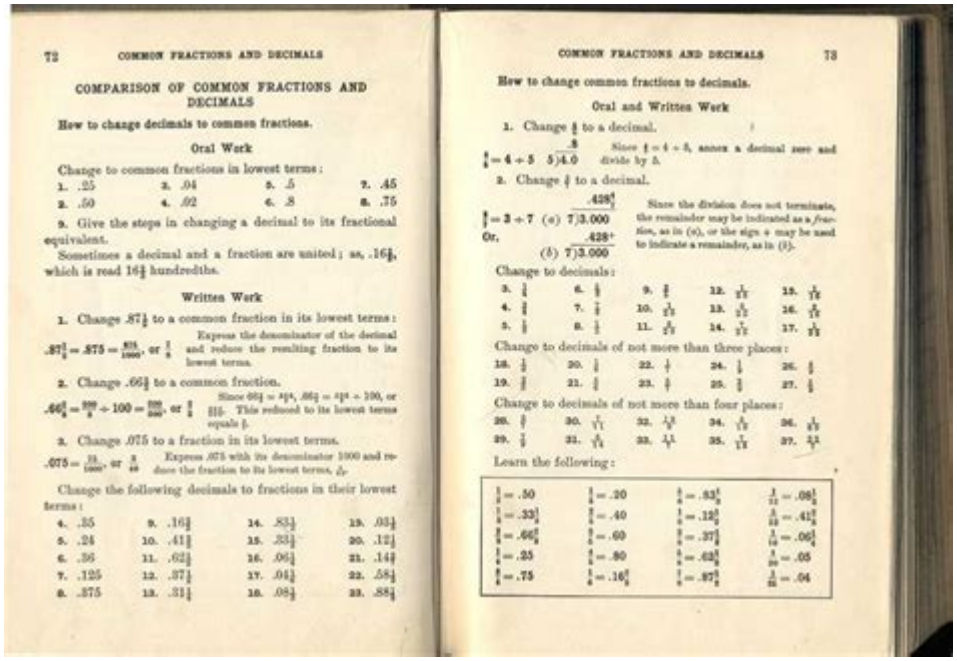
Math 180 Answers Key



72 COMMON FRACTIONS AND DECIMALS

COMPARISON OF COMMON FRACTIONS AND DECIMALS

How to change decimals to common fractions.

Oral Work

Change to common fractions in lowest terms:

1. .25 2. .04 3. .5 7. .45
2. .50 4. .02 6. .8 8. .75

9. Give the steps in changing a decimal to its fractional equivalent.

Sometimes a decimal and a fraction are united; as, .16⅔, which is read 16⅔ hundredths.

Written Work

1. Change .87½ to a common fraction in its lowest terms:

$.87\frac{1}{2} = .875 = \frac{875}{1000}$, or $\frac{7}{8}$. Express the denominator of the decimal and reduce the resulting fraction to its lowest terms.

2. Change .66⅔ to a common fraction.

$.66\frac{2}{3} = \frac{66\frac{2}{3}}{100} \div 100 = \frac{200}{300}$, or $\frac{2}{3}$. Since $66\frac{2}{3} = \frac{200}{3}$, $66\frac{2}{3} \div 100 = \frac{200}{3} \times \frac{1}{100}$, or $\frac{2}{3}$. This reduced to its lowest terms equals $\frac{2}{3}$.

3. Change .075 to a fraction in its lowest terms.

$.075 = \frac{75}{1000}$, or $\frac{3}{40}$. Express .075 with its denominator 1000 and reduce the fraction to its lowest terms, $\frac{3}{40}$.

Change the following decimals to fractions in their lowest terms:

4. .55 9. .16⅔ 14. .83⅓ 19. .03⅓
5. .24 10. .41⅔ 15. .33⅓ 20. .12½
6. .36 11. .62½ 16. .06¼ 21. .14⅔
7. .125 12. .37½ 17. .04½ 22. .58⅓
8. .375 13. .31¼ 18. .08⅓ 23. .88⅓

COMMON FRACTIONS AND DECIMALS 73

How to change common fractions to decimals.

Oral and Written Work

1. Change $\frac{4}{5}$ to a decimal.

$\frac{4}{5} = 4 \div 5$ $5\overline{)4.0}$ (.8) Since $\frac{4}{5} = 4 \div 5$, annex a decimal zero and divide by 5.

2. Change $\frac{3}{7}$ to a decimal.

$\frac{3}{7} = 3 \div 7$ (a) $7\overline{)3.000}$ (.428⅔) Since the division does not terminate, the remainder may be indicated as a fraction, as in (a), or the sign + may be used to indicate a remainder, as in (b).

Or, (b) $7\overline{)3.000}$ (.428+)

Change to decimals:

3. $\frac{1}{2}$ 6. $\frac{1}{8}$ 9. $\frac{2}{3}$ 12. $\frac{1}{16}$ 15. $\frac{1}{32}$
4. $\frac{3}{4}$ 7. $\frac{1}{6}$ 10. $\frac{1}{12}$ 13. $\frac{1}{12}$ 16. $\frac{1}{64}$
5. $\frac{1}{5}$ 8. $\frac{1}{3}$ 11. $\frac{1}{25}$ 14. $\frac{1}{12}$ 17. $\frac{1}{24}$

Change to decimals of not more than three places:

18. $\frac{1}{9}$ 20. $\frac{1}{7}$ 22. $\frac{1}{7}$ 24. $\frac{1}{7}$ 26. $\frac{1}{7}$
19. $\frac{1}{7}$ 21. $\frac{1}{7}$ 23. $\frac{1}{7}$ 25. $\frac{1}{7}$ 27. $\frac{1}{7}$

Change to decimals of not more than four places:

28. $\frac{1}{7}$ 30. $\frac{1}{11}$ 32. $\frac{1}{7}$ 34. $\frac{1}{11}$ 36. $\frac{1}{11}$
29. $\frac{1}{7}$ 31. $\frac{1}{11}$ 33. $\frac{1}{11}$ 35. $\frac{1}{11}$ 37. $\frac{1}{11}$

Learn the following:

$\frac{1}{2} = .50$	$\frac{1}{5} = .20$	$\frac{1}{6} = .83\frac{1}{3}$	$\frac{1}{12} = .08\frac{1}{3}$
$\frac{1}{3} = .33\frac{1}{3}$	$\frac{2}{5} = .40$	$\frac{1}{8} = .12\frac{1}{2}$	$\frac{5}{12} = .41\frac{2}{3}$
$\frac{2}{3} = .66\frac{2}{3}$	$\frac{3}{5} = .60$	$\frac{3}{8} = .37\frac{1}{2}$	$\frac{1}{16} = .06\frac{1}{4}$
$\frac{1}{4} = .25$	$\frac{4}{5} = .80$	$\frac{5}{8} = .62\frac{1}{2}$	$\frac{1}{20} = .05$
$\frac{3}{4} = .75$	$\frac{1}{6} = .16\frac{2}{3}$	$\frac{7}{8} = .87\frac{1}{2}$	$\frac{1}{25} = .04$

Math 180 answers key is a vital resource for educators and students navigating the complexities of mathematics. Math 180 is an intensive intervention program designed to help students in grades 4-12 who struggle with mathematics. It offers a comprehensive curriculum that emphasizes conceptual understanding and problem-solving skills. However, many students often seek guidance on how to approach the problems presented in Math 180, making the answers key an essential tool for learning and assessment. In this article, we will explore the significance of the Math 180 answers key, how to utilize it effectively, and additional resources that can aid in mastering mathematics.

Understanding Math 180

Math 180 is tailored for students who need additional support in mathematics. The program is structured around several key components:

- **Engaging Content:** Math 180 incorporates a variety of interactive lessons that engage students through real-world applications and technology.
- **Personalized Learning:** The program adapts to individual student needs, providing targeted practice and instruction based on their progress.
- **Data-Driven Insights:** Teachers receive valuable information about student performance, allowing them to adjust instruction as necessary.

Understanding the program's framework is crucial for both educators and students. The answers key serves as a guide to help students verify their work and understand the correct methodologies for solving problems.

The Importance of the Math 180 Answers Key

The Math 180 answers key is not just a list of answers; it serves several important functions:

1. Enhancing Learning

Students often learn better when they can check their answers against a reliable source. The Math 180 answers key allows students to:

- Identify Mistakes: By comparing their answers with the key, students can pinpoint where they went wrong and understand their misconceptions.
- Learn Correct Methods: The answers key can guide students on how to approach similar problems in the future, reinforcing learning.

2. Supporting Teachers

For teachers, the answers key provides a framework for:

- Assessing Student Understanding: Educators can quickly check students' work against the answers key to evaluate their grasp of the material.
- Creating Tailored Lesson Plans: By understanding common errors through the answers key, teachers can adjust their instruction to address specific areas where students struggle.

3. Building Confidence

Checking work against the answers key can significantly boost students' confidence. When students see that they got a problem right, it reinforces their understanding and motivates them to tackle more challenging problems.

How to Use the Math 180 Answers Key Effectively

To maximize the benefits of the Math 180 answers key, students should follow these strategies:

1. Attempt Problems Independently

Before consulting the answers key, students should attempt to solve problems on their own. This practice encourages independent thinking and problem-solving skills.

2. Review Solutions Thoroughly

When checking answers, students should not just look for correct or incorrect answers. Instead, they should:

- Analyze the Solution: Understand how the correct answer was derived.
- Identify Different Approaches: Look for alternative methods of solving the problem that might lead to a better understanding.

3. Collaborate with Peers

Studying in groups can enhance learning. Students can:

- Discuss Mistakes: Sharing errors and discussing why they occurred can deepen understanding.
- Teach Each Other: Explaining concepts to peers helps reinforce one's own knowledge.

4. Ask for Help When Needed

If students struggle to understand a solution, they should not hesitate to ask for clarification. Teachers, tutors, or online resources can provide additional explanations.

Additional Resources for Math 180 Students

Aside from the answers key, several other resources can aid students in their Math 180 journey:

1. Online Tutorials and Videos

Platforms like Khan Academy and YouTube offer free tutorials on various math topics covered in Math 180. These can provide visual and verbal explanations that may resonate more with some learners.

2. Math Workbooks

Supplemental workbooks can provide additional practice on topics covered in Math 180. This extra practice can help solidify concepts and improve problem-solving skills.

3. Educational Apps

There are numerous educational apps designed to reinforce math skills. These apps often include games and interactive challenges that make learning enjoyable.

4. Study Groups

Forming or joining a study group can provide a support system where students can collaborate, share knowledge, and help each other understand challenging concepts.

Conclusion

In conclusion, the **Math 180 answers key** is an invaluable resource for students and teachers alike. It not only helps students check their work but also enhances their understanding of mathematical concepts. By using the answers key effectively, students can learn from their mistakes, build confidence, and ultimately improve their math skills. Coupled with additional resources and collaboration, the Math 180 program can transform the way students engage with mathematics, making it a more approachable and enjoyable subject. Whether you are a student seeking to reinforce your learning or an educator looking to support your students, the Math 180 answers key is a fundamental tool in the journey toward math proficiency.

Frequently Asked Questions

What is Math 180?

Math 180 is an intensive math intervention program designed to help struggling students in grades 4-12 improve their math skills through personalized learning.

Is there a specific answer key for Math 180?

Yes, Math 180 typically provides answer keys for educators to assist in

grading and guiding students, but these are not generally made available to students to encourage independent learning.

Where can I find the Math 180 answer key?

The Math 180 answer key is usually available to teachers through the program's official resources, such as the teacher's edition or online portal.

Are there any online resources for Math 180 answers?

While there may be websites and forums discussing Math 180 concepts, it's important to use official resources or consult with your educator for accurate information.

Can students access Math 180 answer keys?

No, students are typically not given access to answer keys to promote problem-solving skills and critical thinking.

What types of problems are included in the Math 180 curriculum?

Math 180 includes a variety of math problems, such as number operations, fractions, decimals, and word problems, designed to build a deep understanding of math concepts.

How can I check my Math 180 work without an answer key?

You can check your work by discussing it with your teacher, collaborating with classmates, or using online resources for additional practice problems and explanations.

What support is available for teachers using Math 180?

Teachers using Math 180 have access to comprehensive support, including professional development, teaching guides, and online resources to help effectively implement the program.

Is Math 180 aligned with state standards?

Yes, Math 180 is designed to align with Common Core and various state standards, making it suitable for a wide range of educational settings.

What skills does Math 180 aim to improve?

Math 180 aims to improve foundational math skills, problem-solving abilities, and overall mathematical reasoning in students who are struggling with math.

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Matematica e Fisica Online - YouMath
YouMath, portale di Matematica online: lezioni, esercizi risolti, formulari, problemi di Matematica e tanto altro ancora!

Bibm@th, la bibliothèque des mathématiques²
Le mathématicien autrichien Hans Hahn étudie à l'université de Vienne où il est très ami avec 3 autres futurs grands scientifiques, Paul Ehrenfest, Heinrich Tietze et Herglotz. ... Afficher sa ...

Testy matematyczne
Testy dla uczniów i nie tylko. Sprawdź swoją wiedzę matematyczną.

Exercices corrigés - Calcul exact d'intégrales
Déterminer toutes les primitives des fonctions suivantes, sur un intervalle bien choisi : $$\begin {array} {lll} \displaystyle f_1 (x)=5x^3-3x+7&\displaystyle f_2 (x ...

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Exercices corrigés - Intégrales multiples
On commence par écrire le domaine d'une meilleure façon. On a en effet :

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Exercices corrigés - Équations différentielles linéaires du premier ordre - résolution, applications

Exercices corrigés - Exercices - Analyse
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