

Multiplying And Dividing Negative Numbers Worksheet

Name _____

Date _____



MULTIPLY AND DIVIDE NEGATIVE NUMBERS

SHEET 1 ANSWERS

- | | |
|------------------------------|-------------------------------|
| 1) $(-6) \times 2 = -12$ | 21) $0 \times (-4) = 0$ |
| 2) $(-20) \div 5 = -4$ | 22) $(-27) \div (-3) = 9$ |
| 3) $(-3) \times 4 = -12$ | 23) $6 \times (-7) = -42$ |
| 4) $(-10) \div 2 = -5$ | 24) $0 \div (-6) = 0$ |
| 5) $(-5) \times 10 = -50$ | 25) $(-8) \times 11 = -88$ |
| 6) $(-15) \div 5 = -3$ | 26) $(-48) \div (-6) = 8$ |
| 7) $3 \times (-6) = -18$ | 27) $7 \times (-8) = -56$ |
| 8) $16 \div (-2) = -8$ | 28) $(-70) \div (-7) = 10$ |
| 9) $8 \times (-4) = -32$ | 29) $11 \times (-10) = -110$ |
| 10) $21 \div (-7) = -3$ | 30) $(-45) \div 9 = -5$ |
| 11) $36 \times (-9) = -4$ | 31) $8 \times (-11) = -88$ |
| 12) $18 \div (-3) = -6$ | 32) $48 \div (-4) = -12$ |
| 13) $(-2) \times (-8) = 16$ | 33) $(-100) \times 8 = -800$ |
| 14) $(-30) \div (-3) = 10$ | 34) $(-60) \div (-30) = 2$ |
| 15) $(-7) \times (-5) = 35$ | 35) $9 \times (-7) = -63$ |
| 16) $(-40) \div (-10) = 4$ | 36) $(-84) \div 12 = -7$ |
| 17) $(-11) \times (-3) = 33$ | 37) $14 \times (-10) = -140$ |
| 18) $(-45) \div (-5) = 9$ | 38) $(-80) \div (-20) = 4$ |
| 19) $7 \times (-10) = -70$ | 39) $(-12) \times (-9) = 108$ |
| 20) $12 \div (-1) = -12$ | 40) $(-120) \div 10 = -12$ |



Multiplying and dividing negative numbers worksheet are essential tools in mastering fundamental mathematical concepts. Understanding how to work with negative numbers is crucial for students as they progress in their math education. This article will provide a comprehensive overview of how to create and use worksheets focused on multiplying and dividing negative numbers, along with practical tips and examples to facilitate learning.

Understanding Negative Numbers

Before diving into the specifics of worksheets, it's important to grasp the concept of negative numbers. Negative numbers are numbers less than zero, represented with a minus sign (-). They are used in various real-world

applications, such as temperatures below zero, debts, and elevations below sea level.

The Importance of Multiplying and Dividing Negative Numbers

Multiplying and dividing negative numbers can sometimes be confusing for students. However, these operations follow specific rules that are crucial in mathematics:

1. **Multiplying Two Negative Numbers:** The product of two negative numbers is positive. For example, $(-3) \times (-2) = 6$.
2. **Multiplying a Positive and a Negative Number:** The product of a positive number and a negative number is negative. For example, $4 \times (-3) = -12$.
3. **Dividing Two Negative Numbers:** The quotient of two negative numbers is positive. For example, $(-8) \div (-4) = 2$.
4. **Dividing a Positive Number by a Negative Number:** The quotient of a positive number and a negative number is negative. For example, $12 \div (-3) = -4$.

Understanding these rules is pivotal for students as they will encounter them in algebra, geometry, and beyond.

Creating a Multiplying and Dividing Negative Numbers Worksheet

Creating a worksheet can be a fun and interactive way for students to practice these concepts. Here is a step-by-step guide on how to create an effective worksheet:

Step 1: Define the Goals

Before designing the worksheet, clarify what you want the students to achieve. This can include:

- Understanding the rules of multiplying and dividing negative numbers.
- Practicing calculations with various examples.
- Developing problem-solving skills in a structured format.

Step 2: Choose the Format

Decide on the type of problems to include. A good worksheet may feature various question types, such as:

- Basic multiplication and division problems.
- Mixed problems with both positive and negative numbers.
- Word problems that require a real-life application of these concepts.

Step 3: Create the Questions

Here's a sample of different types of questions you could include:

- Multiply the following:

- 1. $(-6) \times (-4) = ?$

- 2. $7 \times (-3) = ?$

- 3. $(-5) \times 9 = ?$

- Divide the following:

- 1. $(-24) \div (-6) = ?$

- 2. $15 \div (-3) = ?$

- 3. $(-36) \div 4 = ?$

- Mixed Operations:

- 1. $(-3) \times 5 + 7 = ?$

- 2. $12 \div (-4) - (-2) = ?$

- 3. $0 - (-6) \times 2 = ?$

- Word Problems:

- A submarine is 200 meters below sea level. If it rises 50 meters, what is its new position?

- A debt of \$150 is paid off in two installments of \$75 each. How much remains?

Step 4: Provide Space for Solutions

Ensure that there is ample space for students to write their answers. You can also include a section for showing their work, which reinforces learning by encouraging them to demonstrate their thought processes.

Step 5: Include an Answer Key

To facilitate self-assessment or for teachers to grade, include an answer key at the end of the worksheet. This should list the correct answers alongside the problems for easy reference.

Tips for Using the Worksheet Effectively

Once the worksheet is created, it's important to use it effectively in the classroom or at home. Here are some tips:

1. Start with a Review

Before distributing the worksheet, review the rules of multiplying and dividing negative numbers. Use examples to illustrate each rule clearly.

2. Encourage Collaborative Learning

Group students together to work on the worksheet. Collaborating with peers can encourage discussion and enhance understanding.

3. Monitor Progress

As students work through the worksheet, circulate the room to offer assistance and answer questions. This can help identify students who may need extra help.

4. Use Technology

Incorporate technology by using digital platforms or math apps that provide similar practice problems. This can make learning more engaging for students.

5. Follow Up with a Review Session

After completing the worksheet, hold a review session to go over the answers. Discuss common mistakes and clarify any remaining confusion.

Conclusion

A well-structured **multiplying and dividing negative numbers worksheet** is an invaluable resource for students learning these essential math concepts. By understanding the rules and practicing through various problems, students can build a solid foundation for future mathematical learning. Utilize the steps

outlined in this article to create effective worksheets that will not only enhance students' skills but also boost their confidence in handling negative numbers in mathematics.

Frequently Asked Questions

What are the basic rules for multiplying negative numbers?

When multiplying two negative numbers, the result is positive. When multiplying a negative number by a positive number, the result is negative.

How do you divide negative numbers?

Similar to multiplication, when dividing two negative numbers, the result is positive. When dividing a negative number by a positive number, the result is negative.

What is a common mistake students make when multiplying negative numbers?

A common mistake is assuming that multiplying two negative numbers will result in a negative product.

Can you provide an example of multiplying negative numbers?

Sure! For example, $(-3) (-4) = 12$.

How can a worksheet help in understanding negative number operations?

A worksheet provides practice problems that reinforce the rules of multiplying and dividing negative numbers, helping students gain confidence.

What should students focus on when practicing with negative numbers?

Students should focus on remembering the sign rules and practicing a variety of problems to solidify their understanding.

Are there any online resources for worksheets on negative numbers?

Yes, many educational websites offer free printable worksheets and interactive exercises for practicing multiplication and division with negative numbers.

How can I check my answers when using a worksheet for negative numbers?

You can check your answers by using a calculator or by reviewing the multiplication and division rules to validate the signs of your results.

Find other PDF article:

<https://soc.up.edu.ph/44-slide/files?ID=nGe63-8571&title=nystce-math-cst-practice-test.pdf>

Multiplying And Dividing Negative Numbers Worksheet

Google Traductor

El servicio de Google, que se ofrece sin costo, traduce al instante palabras, frases y páginas web del inglés a más de 100 idiomas.

Google Traductor

Traducir Detectar idioma→ Español Página principal de Google Enviar comentarios

The Joint Distribution of Value and Profitability: International Evidence

Jan 1, 2020 · This study develops new evidence on risk versus mispricing explanations of the well-known profitability premium. First, we examine whether exposure to expected downside ...

Combining Value and Profitability Factors: the International Evidence

Jun 10, 2021 · In their November 2020 study, " The Joint Distribution of Value and Profitability: International Evidence, " Wahal and Repetto expanded their research to include international ...

International Differences in Profitability* - Bloch - 2024

Oct 10, 2023 · We examine the global distribution of company profitability over the 30 years from 1989 to 2018 focusing on the international dimension. We find the international component of ...

The Joint Distribution of Value and Profitability: International Evidence

The Joint Distribution of Value and Profitability: International EvidenceStandort Klicken Sie hier, um den Inhalt der Registerkarte zu laden.

Organization capital, dividends and firm value: International evidence

Dec 1, 2024 · This table presents the distribution of firm-year observations in our sample as well as the average values of dividend payouts (DIV) and organization capital (OrgCapPT) across ...

Equilibrium Value and Profitability Premiums - Hengjie Ai

We show that our model can not only distinguish the profitability factor from the value factor but also account for the co-existence of the value and profitability premium.

Size, value, profitability, and investment: Evidence from ...

Sep 1, 2018 · We find little evidence of value, profitability, and some investment effects. Local factors perform better than US and global factors. In this study, we investigate how the Fama ...

Causality between corporate diversification and profitability: evidence ...

Feb 2, 2015 · Prior empirical studies on the relationship between corporate diversification and firm performance have not considered data stationarity and have devoted little consideration to the ...

Profitability and royalty rates across industries: Some ... - KPMG

Abstract Is the licensing market efficient such that royalty rates reflect costs and profitability across industries? This paper tries to answer the question through exploring the relationship between ...

in Stock Returns, The Value Premium, and the Profitability ... - FLVC

Profitability Premium: International Evidence by Benjamin A. Jansen A Dissertation Submitted to the Faculty of College of Business

Master the art of multiplying and dividing negative numbers with our comprehensive worksheet. Perfect for practice and reinforcement. Learn more today!

[Back to Home](#)