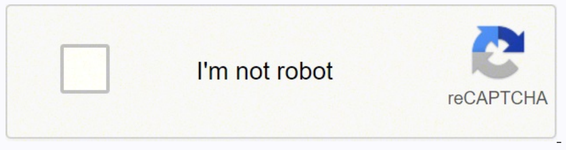

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Multiplying and dividing integers worksheet 7th grade free worksheets answers

NAME _____ DATE _____ PERIOD ____

2-6 Skills Practice

Multiplying Integers

Multiply.

1. $-4(6)$
2. $-2(-8)$
3. $12(-4)$
4. $-6(5)$
5. $-10(-9)$
6. $-(5)^2$
7. $(-5)^2$
8. $-30(5)$
9. $20(-6)$
10. $-14(-6)$
11. $(-13)^2$
12. $-7(15)$

ALGEBRA Simplify each expression.

13. $-3(4y)$
14. $7(-3x)$
15. $7(5g)$
16. $7(7w)$
17. $3(-3y)$
18. $-2(-10h)$

Name: _____ Date: _____

Add the integers. You can use integer tiles, drawn models or number lines to help you.

1. (–4) + +8 =
2. (–7) + +6 =
3. +9 + (+9) =
4. +6 + (–2) =
5. (–11) + +10 =
6. +8 + (–7) =
7. +3 + (–10) =
8. +5 + (–2) =
9. +12 + +2 =
10. +1 + (–4) =
11. +5 + (–6) =
12. (–7) + (–7) =
13. (–5) + (–3) =
14. (–6) + (–6) =

Adding and Subtracting Integers (A)

Find the sum or difference for each question.

(-7) - (-5) =	(-4) + (+8) =	(-8) + (+6) =
(+5) + (0) =	(+5) - (+2) =	(+1) + (+1) =
(+7) + (-9) =	(+3) + (-2) =	(-7) + (-4) =
(+7) + (-7) =	(+3) + (-3) =	(+8) + (+2) =
(+8) + (-1) =	(-1) + (+9) =	(+3) - (-6) =
(+17) - (+8) =	(+1) + (+6) =	(-1) - (-4) =
(-4) + (-1) =	(-8) + (-3) =	(-9) + (+7) =
(+1) - (-1) =	(-16) - (-9) =	(-7) + (+6) =
(+14) - (+5) =	(+6) - (+5) =	(+7) + (+3) =
(-17) - (-8) =	(+14) - (+7) =	(-8) - (-2) =

Name _____

Practice 2-1

Integers and Absolute Value

Name the opposite of each number.

1. 7 _____
2. −8 _____
3. 11 _____
4. −47 _____
5. −15 _____
6. 28 _____
7. −98 _____
8. 638 _____

Describe a situation that could be represented by each integer.

9. 4 _____
10. −16 _____
11. −2 hours _____
12. −$3 _____

Use >, <, or = to compare each set of numbers.

13. −$4 ◯ −$8
14. −7 ◯ |−7|
15. 6 ◯ −6
16. 0 ◯ −8
17. −9 ◯ 3
18. −2 ◯ −1
19. 15 ◯ |15|
20. 17 ◯ −35

Find each absolute value.

21. |−3| _____
22. |8| _____
23. |635| _____
24. |−56| _____
25. |−845| _____
26. |12 − 3| _____
27. |35 − 7| _____
28. |−3487| _____

29. What integer is described by the following? The absolute

Multiplying and Dividing Mixed Fractions (A) Answers

Find the value of each expression in lowest terms.

1. $3\frac{2}{7} \div 1\frac{1}{4}$
$= \frac{92}{35} = 2\frac{22}{35}$

2. $1\frac{2}{3} \div 3\frac{1}{3}$
$= \frac{1}{2}$

3. $2\frac{1}{4} \div 1\frac{1}{2}$
$= \frac{3}{2} = 1\frac{1}{2}$

4. $6\frac{1}{2} \div 2\frac{2}{3}$
$= \frac{39}{16} = 2\frac{7}{16}$

5. $2\frac{1}{10} \div 2\frac{3}{5}$
$= \frac{21}{26}$

6. $1\frac{1}{3} \times 1\frac{2}{3}$
$= \frac{20}{9} = 2\frac{2}{9}$

7. $1\frac{1}{3} \times 2\frac{1}{5}$
$= \frac{44}{15} = 2\frac{14}{15}$

8. $2\frac{1}{7} \div 2\frac{1}{2}$
$= \frac{6}{7}$

9. $1\frac{3}{11} \div 2\frac{1}{3}$
$= \frac{6}{11}$

10. $3\frac{1}{2} \div 2\frac{3}{4}$
$= \frac{14}{11} = 1\frac{3}{11}$

11. $1\frac{3}{8} \div 1\frac{1}{12}$
$= \frac{33}{26} = 1\frac{7}{26}$

12. $2\frac{7}{8} \div 5\frac{1}{2}$
$= \frac{23}{44}$

13. $3\frac{2}{3} \div 1\frac{1}{6}$
$= \frac{22}{7} = 3\frac{1}{7}$

14. $1\frac{3}{8} \times 3\frac{1}{3}$
$= \frac{55}{12} = 4\frac{7}{12}$

15. $1\frac{4}{11} \div 1\frac{1}{4}$
$= \frac{12}{11} = 1\frac{1}{11}$

 Each worksheet consists of ten problems. This will help you secure the 50% discount available for the first 48 hours. Students will develop a deeper understanding of the big idea and will make connections between concepts. Deep sea divers spend all sorts of time in negative integer territory. More technically, it would be the integer with the greater absolute value. One hugely important reason is that there are many high school mathematics topics that will rely on a strong knowledge of integers and the rules associated with them. Next, remove the chips that would represent the second number from your pile and you will have your answer. Discovery-Based Worksheets have been specially designed to engage students in learning that moves beyond traditional skills practice. From the bank's perspective, they have gained three customers (+3) and lost $5 from each one (-5). When we say, the correct side, we mean use red for negative numbers and yellow for positive numbers. Welcome to the integers worksheets page at Math-Drills.com where you may have a negative experience, but in the world of integers, that's a good thing! This page includes Integers worksheets for comparing and ordering integers, adding, subtracting, multiplying and dividing integers and order of operations with integers. Integer Division Perform the division operation on the integers to find the quotient in these three pdf worksheets. In these multiplying and dividing integers discovery worksheets, students will use manipulatives to help build an understanding of the concepts. If the clients all paid back their loans, the bank would lose the 3 customers Mixed Operations with Integers Worksheets Integers worksheets with a mixture of four operations on the same page. A total of 48 problems are given in these integer worksheets for practice. In order to develop a deeper understanding of these rules, it is nice to think of an example from outside of school such as a bank and its loan clients. Alternatively, students can always convert subtraction questions to addition questions by changing the signs (e.g. (−5) − (−7) is the same as (−5) + 7; 3 − 5 is the same as 3 + (−5)). In our example 5 - (-5), you would add 5 zeros, so that you could remove five red chips. Try one today!Includes:-4 pages student worksheets-Answer keys-Teacher's Guide with CCSS, objectives, materials, and procedure-Printable number lines-Printable arrow manipulatives (2 size options)Worksheet #1 - Multiplying Integers with Number LinesWorksheet #2 - Multiplying & Dividing Integers Practice & Higher Order Thinking QuestionsYou might also like:Follow the Arrow: Adding and Subtracting IntegersOld Math Guy: Integers (Mixed Operations)Math War: Simplifying Expressions Involving IntegersAll Operations with Rational Numbers Scavenger HuntExpenses & Income: Operations with Rational NumbersBINGO: The Number System Review (7th Grade)**********Tips for Buyers© Earn TpT credits to use toward future purchases by providing feedback for paid products. (Feedback on free products is also greatly appreciated!)© Follow me to receive notifications when new products are posted. This works beautifully if you have enough of the right color chip to remove, but often times you don't. In positive minus positive questions, if the subtrahend is greater than the minuend, the answer will be negative. A multiple license can be purchased if you wish to share with other teachers. These worksheets make a great introduction to a new topic or summary at the end of a lesson or unit. For example, 5 - (-5), would require five yellow chips to start and would also require the removal of five red chips, but there aren't any red chips! Thank goodness, we have the zero principle. Each printable worksheet for grade 7 and grade 8 contains four problems with three expressions each. Unfortunately, that isn't all there is to it. You will also receive occasional messages alerting you to sales, promotions, and other exciting news.© Don’t quite see what you are looking for? © Free to Discover (Amanda Nix) Multiplication of Integers Multiply the integers to find the product. It cannot be uploaded to the Internet, including school websites. Integer subtraction can be thought of as removing. Taking out the zeros means removing as many pairs of yellow and red chips as you can. Evaluate: Multiply and Divide Evaluate the expressions by substituting the values in the variables. Adding integers worksheets Have you heard about two-color counters and how they can make your life much easier while helping students understand integers better? They can be used to help students see more clearly how certain integer questions end up with positive and negative results. Read more about them below. From the clients' perspective, they each gained $5, so they would all be in positive territory 3 x 5 = $15. There are many reasons why a knowledge of integers is helpful even if you are not going to pursue an accounting or deep sea diving career. Multiplying 3 or 4 Integers Find the product of the integers. Two-color counters are usually plastic chips that usually come with yellow on one side and red on the other side. If you've ever spent time in Canada in January, you've most likely experienced a negative integer first hand. Explore these visual aids and comprehend the two rules of multiplication of integers. Multiplication Squares | 2x2 Conceptualize the fundamentals of multiplying integers with this bath of interesting 2x2 squares. Subtracting with integer chips is a little different. You model the first number with a pile of chips flipped to the correct side and you also model the second number with a pile of chips flipped to the correct side, then you mash them all together, take out the zeros (if any) and voila! you have your answer. Apply the multiplication sign rule. We've included a few hundred integers worksheets on this page to help support your students in their pursuit of knowledge. Integer Multiplication Charts | Display Charts Designed to assist 6th grade students with multiplication of integers, this array of charts focuses on multiplication of integers from -5 to +5 and -10 to +10. Most Popular Integers Worksheets this Week General Use Printables General use integers printables including coordinate grid paper and number lines. In other words, multiplying two positives or two negatives together results in a positive products, and multiplying a negative and a positive together results in a negative product. Vice-versa for both situations. You do this because -1 and 1 when added together equals zero (this is called the zero principle). Multiply the integers in the rows and columns and write the products in the squares. You may also want to get one of those giant integer number lines to post if you are a teacher, or print off a few of our integer number lines. Leave me a note in the “Ask a Question” tab. You can also project them on your whiteboard or make an overhead transparency. Multiplying & Dividing Integers Worksheets Multiplying and dividing integers in various ranges and including worksheets that focus on specific types of integer operations. Comparing & Ordering Integers Worksheets Comparing and ordering integers worksheets for learning about ordinality in integers. Adding with two-color counters is actually quite easy. Multiplication Squares | 3x3 Get students to multiply the positive and negative numbers in each row and column and fill in the empty boxes in each 3x3 square. Integer Multiplication Charts | Blank Charts Print this set of ready-to-print blank charts and practice multiplying integers from -10 to +10. The other thing that we highly recommend are integer chips a.k.a. two-color counters. You would model -5 with five red chips and 7 with seven yellow chips. If you remove the zeros, you don't change the answer at all. Since you are adding, you put the two groups of chips together, being careful not to flip any of them in the process, of course. I would be happy to create a product to meet the needs of you and your students.Copyright Information and Terms of Use:The purchase of this product entitles a single user to reproduce the resource for classroom use only. For simplicity sake, we'll use low numbers, but the actual numbers will be greater (maybe think in terms of thousands of dollars). Let's say the bank gets 3 new loan clients and each customer borrows $5. The product is for educational use only. Sure, you could just teach them the ++, +-, -+, and -- rules, but then they would have no color in their lives. Students will use an arrow and a number line to model multiplying integers in these concrete, hands-on activities.This product is part of the Discovery-Based Worksheet Series. In the case of addition of negative and positive integers, some people suggest looking for the "heavier" value to determine whether the sum will be positive of negative. All that is needed then is to add as many zeros (pairs of red and yellow chips) as needed until there are enough of the correct color chip to remove. For example, in the question (−2) + 5, the absolute value of the positive integer is greater, so the sum will be positive. For homeschoolers or those with only one or a few students, the paper versions should do. Adding or subtracting zero (a red chip and a yellow chip) has no effect on the original number, so we could add as many zeros as we wanted to the pile, and the number would still be the same. Scaffolded Integer Addition and Subtraction These worksheets include groups of questions that all result in positive or negative sums or differences. In subtraction questions, the focus is on the subtrahend (the value being subtracted). You would then be left with 10 yellow chips (or +10) which is the answer to the question. To subtract with integer chips, begin by modeling the first number (the minuend) with integer chips. Summarized, they are ++ = +; -- = +; +- = -; and -+ = -. Banks like you to keep negative balances in your accounts, so they can charge you loads of interest. The benefit of removing the zeros, however, is that you always end up with only one color and as a consequence, the answer to the integer question. Mashing them together should be straight forward. The product of integers will be positive, if the signs are same and the answer will be negative, if the multiplying integers have different signs. Adding and subtracting integers worksheets in various ranges including a variety of options for parentheses use. It is a fairly straightforward process. Since there are a few confused faces in the audience, let us explain a little further. They do come in other colors, so you'll have to use your own colors in our description. Multiplying integers Multiplying integers is normally where students learn the general rules for multiplying negatives and positives. In negative minus negative questions, if the subtrahend has a greater absolute value, the answer will be positive. In total, they have lost 3 x (-5) = -$15.

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