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# Divide decimals by powers of 10 worksheet

## Multiplying and Dividing By Powers of 10

### Part 1

Answer the following questions.

- (a)  $8 \times 10^2 =$   
 (b)  $8.8 \times 10^3 =$   
 (c)  $3.07 \times 10^4 =$   
 (d)  $3.04 \times 10^5 =$   
 (e)  $0.502 \times 10^6 =$   
 (f)  $4.2 \times 10^7 =$   
 (g)  $8.67 \times 10^8 =$   
 (h)  $2.024 \times 10^9 =$   
 (i)  $5420 \times 10^{10} =$   
 (j)  $40.74 \times 10^{11} =$
- (k)  $0.45 \times 10^2 =$   
 (l)  $2.024 \times 10^3 =$   
 (m)  $9.2 \times 10^4 =$   
 (n)  $8.2 \times 10^5 =$   
 (o)  $0.83 \times 10^6 =$   
 (p)  $442 \times 10^7 =$   
 (q)  $1743 \times 10^8 =$   
 (r)  $89 \times 10^9 =$   
 (s)  $8.1 \times 10^{10} =$   
 (t)  $903.5 \times 10^{11} =$

### Part 2

Fill in the missing numbers?

- (a)  $\square \times 10^2 = 580$   
 (b)  $\square \times 10^3 = 5$   
 (c)  $0.45 \times \square = 450$   
 (d)  $3270 \times \square = 3.27$   
 (e)  $0.1 \times \square = 10$   
 (f)  $1.51 \times \square = 0.151$
- (g)  $\square \times 10^4 = 600$   
 (h)  $0.4 \times \square = 0.04$   
 (i)  $0.2 \times \square = 20$   
 (j)  $202 \times \square = 0.0202$   
 (k)  $1.6 \times \square = 160$   
 (l)  $\square \times 10^2 = 0.4$

## Multiplying by Positive Powers of Ten (A)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Multiply each number by positive powers of ten.

$$\begin{array}{ll} 99 \times 1 = & 31 \times 1 = \\ 99 \times 10 = & 31 \times 10 = \\ 99 \times 100 = & 31 \times 100 = \\ 99 \times 1000 = & 31 \times 1000 = \\ 99 \times 10,000 = & 31 \times 10,000 = \end{array}$$

$$\begin{array}{ll} 84 \times 1 = & 45 \times 1 = \\ 84 \times 10 = & 45 \times 10 = \\ 84 \times 100 = & 45 \times 100 = \\ 84 \times 1000 = & 45 \times 1000 = \\ 84 \times 10,000 = & 45 \times 10,000 = \end{array}$$

$$\begin{array}{ll} 13 \times 1 = & 21 \times 1 = \\ 13 \times 10 = & 21 \times 10 = \\ 13 \times 100 = & 21 \times 100 = \\ 13 \times 1000 = & 21 \times 1000 = \\ 13 \times 10,000 = & 21 \times 10,000 = \end{array}$$

$$\begin{array}{ll} 73 \times 1 = & 56 \times 1 = \\ 73 \times 10 = & 56 \times 10 = \\ 73 \times 100 = & 56 \times 100 = \\ 73 \times 1000 = & 56 \times 1000 = \\ 73 \times 10,000 = & 56 \times 10,000 = \end{array}$$

$$\begin{array}{ll} 49 \times 1 = & 72 \times 1 = \\ 49 \times 10 = & 72 \times 10 = \\ 49 \times 100 = & 72 \times 100 = \\ 49 \times 1000 = & 72 \times 1000 = \\ 49 \times 10,000 = & 72 \times 10,000 = \end{array}$$

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## Multiply by Powers of Ten (A)

$8.87 \times 1,000 =$	$7.725 \times 0.001 =$
$8.37 \times 100 =$	$1,000 \times 1 =$
$3.152 \times 1,000 =$	$9,225 \times 10 =$
$9,000 \times 1,000 =$	$2,811 \times 1 =$
$5,560 \times 100 =$	$475 \times 10 =$
$8,555 \times 100 =$	$12,000 \times 0.001 =$
$9,879 \times 1,000 =$	$1,010 \times 1 =$
$9,332 \times 100 =$	$1,7947 \times 10 =$
$6 \times 1,000 =$	$2,4112 \times 0.001 =$
$1,013 \times 1,000 =$	$0,0312 \times 10 =$

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**Dividing whole numbers by powers of 10**

Grade 4 Decimals Worksheet  
Find the quotient.

1.  $4,230 \div 10,000 =$       2.  $2,891 \div 10,000 =$   
 3.  $7,258 \div 10 =$       4.  $620 \div 10 =$   
 5.  $4,616 \div 10 =$       6.  $4,476 \div 10,000 =$   
 7.  $363 \div 10 =$       8.  $3,616 \div 1,000 =$   
 9.  $2,627 \div 10 =$       10.  $8,098 \div 1,000 =$   
 11.  $4,589 \div 1,000 =$       12.  $1,793 \div 100 =$   
 13.  $605 \div 10,000 =$       14.  $3,444 \div 10 =$   
 15.  $3,629 \div 100 =$       16.  $3,016 \div 10,000 =$   
 17.  $9,963 \div 1,000 =$       18.  $2,449 \div 100 =$   
 19.  $8,800 \div 1,000 =$       20.  $7,508 \div 100 =$

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**Multiplying decimals by powers of 10**

Grade 6 Decimals Worksheet

Find the product.

1.  $100,000 \times 0.509 =$  \_\_\_\_\_

2.  $1,000 \times 0.607 =$  \_\_\_\_\_

3.  $1,000 \times 88.7 =$  \_\_\_\_\_

4.  $100,000 \times 0.238 =$  \_\_\_\_\_

5.  $1,000 \times 0.274 =$  \_\_\_\_\_

6.  $100,000 \times 0.549 =$  \_\_\_\_\_

7.  $1,000 \times 0.323 =$  \_\_\_\_\_

8.  $100 \times 0.337 =$  \_\_\_\_\_

9.  $10 \times 12.9 =$  \_\_\_\_\_

10.  $10 \times 0.978 =$  \_\_\_\_\_

11.  $10,000 \times 4.33 =$  \_\_\_\_\_

12.  $100,000 \times 0.138 =$  \_\_\_\_\_

13.  $10 \times 76.7 =$  \_\_\_\_\_

14.  $1,000 \times 9.02 =$  \_\_\_\_\_

15.  $1,000 \times 0.914 =$  \_\_\_\_\_

16.  $1,000 \times 50.1 =$  \_\_\_\_\_

How to multiply and divide decimals by powers of 10. Multiply and divide decimals by powers of 10 worksheet pdf. Multiply and divide decimals by powers of 10 worksheet. 10 000 divided by 20.

This allows students to see patterns in multiplication or dividing by a set of ten powers. Let Grade 5 and Grade 6 students understand that dividing a number by the power of ten decreases their value. Children also recognize that, in a number of several digits, a dip in place represents 10 times more than it represents on the spot on your right and 1/10 of what it represents in place on your left. Dividing decimals by ten powers do not leave these skills in dividing decimals by powers of ten outta by the way. Instead, try the whole node spreadsheets in the page. Multiplying and dividing decimal numbers by powers of ten spreadsheet spreadsheets to practice multiplying and sharing decimal numbers by ten powers with mixed and individual powers of ten and both standard and exponent forms. Instead, let the students of the 6th sleep polish as they divide the decimal number by the indicated power of ten and change the decimal point to the left accordingly. Multiplying decimals by ten-opt powers by our decimals multipliers by the power of the dozen pdfs spreadsheet for students of the 6th year to fluently multiply the decimal numbers with the specified powers of tens and move the decimal point to the right, as there are zeros. Learning to multiply by powers of ten worksheets include the same number multiplied by the positive or negative powers of ten. Lead your crew through our decimals multipliers printed by powers of ten spreadsheets and solidify your understanding of the value of the place. Multiplication decimals for 10, 100 and 1000 instruct the students of the 5th day to observe the patterns, as they multiply the same decimal number in 10, 100 and 1000 in these PDFs and understand that the dips remain the same as their position in relation to the decimal point changes. Understand how to multiply and divide by ten powers is a zed zed ed sovtagen seredop rezaf medop of Án sonula so euq siacnesse sedadilbih to 0.1, 0.01, and 0.001. Positive powers of ten refers to 10, 100, and 1,000. These exercise pdfs provides students the much needed practice in the most important part of dividing decimals, which is moving the decimal point to the left as many places as the power of ten they are divided by and the appropriate number of zeros to be added in the quotient. Evaluate instantly with our answer key. Work your way through our free worksheet and come back for more! Dividing Decimals by 10, 100, and 1000 Replete with decimal numbers to be divided by powers of ten, such as 10, 100, and 1000, our dividing decimals by powers of tens worksheet pdfs help 5th grade learners practice moving the decimal point to 1, 2, and 3 places toward the left. We've supplied worksheets in both standard form and exponent form. Multiplying & Dividing Whole Numbers by Powers of Ten Worksheets Worksheets to practice multiplying and dividing whole numbers by powers of ten with mixed and individual powers of ten and both standard and exponent forms. Grab our free multiplying decimals by the powers of ten worksheet for a sneak peek. Watch the digits shift 1, 2, or 3 places to the left depending on the power of ten it is multiplied by and see the change in the place value of the digits. If they are ready, these worksheets should prove to be a fine challenge and will go a long way in helping your students to be successful in their mathematics learning. Welcome to the powers of ten math worksheets page at Math-Drills.com where you have the power to learn this important skill! This page includes Powers of ten math worksheets with whole numbers and decimals in comma/point and point/comma formats for students to learn this important skill. Explain patterns in the number of zeros of the product when multiplying a number by 10, 100, and 1000, and analyze the patterns in the placement of the decimal point. In case this is new to you,  $10 \cdot 3 = 0.001$ ,  $10 \cdot 2 = 0.01$ ,  $10 \cdot 1 = 0.1$ ,  $10 \cdot 0.1 = 0.01$ ,  $10 \cdot 0.01 = 0.001$ . 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