

Decimal Fractions and Decimals: math practice, Grade 4 – download the PDF

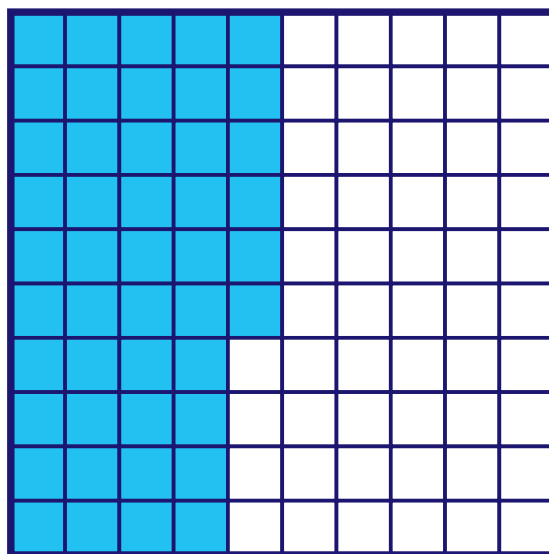
22 problems graded by difficulty (★ easy, ★★ medium, ★★★ hard). Try first, without looking at the solutions!

1

Reading a hundred grid

★ ★ ★

Look at the hundred grid. The blue squares are shaded.



- Write the shaded part as a fraction with denominator 100.
- Write it as a decimal.

2 Fractions to decimals



Write each fraction as a decimal.

a. $\frac{7}{10}$

b. $\frac{9}{100}$

c. $\frac{53}{100}$

d. $\frac{4}{10}$

3 Decimals to fractions



Write each decimal as a fraction with denominator 10 or 100.

a. 0.8

b. 0.05

c. 0.62

d. 0.3

4 Words to numbers



Write each number with digits.

a. seven tenths

b. twenty-nine hundredths

c. four and six tenths

d. three and eight hundredths

5 Value of each digit



In the number 5.37, give the value of each digit.

6 Reading a number line



The number line is cut into 10 equal steps from 0 to 1.



Write the decimal for point A and for point B.

7 Coins



Maya has 3 dimes and 5 pennies. How much money does she have, written as a decimal amount in dollars?

8 Tenths to hundredths



Fill in each blank.

a. $\frac{3}{10} = \frac{?}{100}$

b. $\frac{9}{10} = \frac{?}{100}$

c. $\frac{4}{10} = \frac{?}{100}$

d. $\frac{60}{100} = \frac{?}{10}$

9 Adding with unlike denominators



Add. Give each answer as a fraction with denominator 100 and as a decimal.

a. $\frac{3}{10} + \frac{4}{100}$

b. $\frac{5}{10} + \frac{27}{100}$

10 Which is greater?



Compare each pair with $<$, $>$ or $=$.

- a. 0.4 and 0.38
- b. 0.07 and 0.7
- c. 1.25 and 1.3
- d. 0.50 and 0.5

11 True or false?



Say whether each statement is true or false. Explain.

- a. $0.5 = 0.50$
- b. 0.3 is greater than 0.25
- c. 0.09 is greater than 0.1
- d. $\frac{6}{10} = 0.06$

12 Putting in order



Write these numbers from least to greatest: 0.6, 0.06, 0.66, 0.16, 1.06.

13 Saving for a book

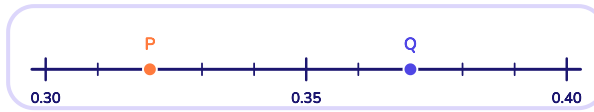


Sam has 2 dollars, 3 dimes and 4 pennies. A paperback costs \$2.43. Does Sam have enough money? If not, how much is missing?

14 Reading hundredths



The number line goes from 0.3 to 0.4 in ten steps.



- Write the decimal for P and for Q.
- Which point is closer to 0.4?

15 Ribbon



Lena cuts two pieces of ribbon. One is $\frac{3}{10}$ meter long and the other is $\frac{25}{100}$ meter long. How long are they together? Give the answer as a fraction and as a decimal.

16 Expanded form



- Write $4\frac{7}{100}$ as a decimal.
- Write $12 + \frac{3}{10} + \frac{8}{100}$ as a decimal.
- Write 6.52 as a whole number plus a tenths fraction plus a hundredths fraction.

17 Mystery number



I am a number between 0.4 and 0.5. My hundredths digit is 3 more than my tenths digit. What number am I?

18 Find the mistake



Jaden says, "0.35 is greater than 0.4 because 35 is greater than 4." Is he right? Explain what went wrong.

19 Swim meet

Four swimmers finish a race in these times, in seconds: Ava 12.45, Ben 12.5, Cora 12.05 and Dev 12.54. List the swimmers from fastest (least time) to slowest. Who wins?

20 At the store

Omar buys a pencil case for \$1.75 and a ruler for \$0.60. He pays with a \$5 bill. How much is the total, and how much change does he get?

21 Three pieces of wire

A craft kit has three pieces of wire that are $\frac{4}{10}$ meter, $\frac{15}{100}$ meter and $\frac{6}{10}$ meter long. Is the total length more than 1 meter?

22 Closest to one half

Which number is closer to 0.5: 0.47 or 0.55? Use a number line from 0.4 to 0.6 in steps of 0.01 if it helps.

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Speed drill for Grade 4: how many in 60 seconds?



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