



# Math Worksheet for 5th Grade

## Decimals in different forms

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

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

Teacher: \_\_\_\_\_

Parent Sign: \_\_\_\_\_

1. Write 4.2 in three forms: standard decimal, word form, and as a fraction in simplest form.
2. Express 0.75 as a fraction, percent, and word form.
3. Write the expanded form of 3.406 (show the place value parts).
4. Write 21.3 in expanded form and in words.
5. Convert 5.03 to a fraction and to words.
6. Write 0.09 as a decimal, fraction, and say which place value the 9 is in.
7. Which is greater: 2.57 or 2.507? Explain in one sentence.
8. Write the decimal 7 and 34 hundredths in standard form and as a fraction.
9. Change 12.5 to an equivalent fraction with denominator 100.
10. Write these three equivalent forms for 0.6: decimal, fraction, and percent.
11. You have 4 full tens blocks, 2 ones blocks, 3 tenths rods, and 7 hundredths cubes. What decimal number do you have? Show the digit in each place.
12. Draw (describe) how you would regroup 1.27 into ones and hundredths if you needed an extra tenth. Then state the new digits after regrouping.
13. A model shows 3 ones and 15 hundredths cubes. What decimal does the model represent? Regroup into tenths and hundredths and give the decimal again.
14. Explain how many tenths make 1 (one) and how that is used when regrouping decimals.
15. Sam has 2.04 meters of ribbon. He needs to give 0.3 meter to a friend. Explain whether he needs to regroup to subtract, and why.
16. Add:  $4.78 + 2.37$ . Show whether you regroup (carry) into the ones place.
17. Subtract:  $6.03 - 2.86$ . Show any regrouping needed and give the result.
18. Add:  $21.3 + 0.47$ . (Line up decimals and find the sum.)
19. Subtract:  $21.3 - 4.58$ . Show regrouping steps and answer.
20. Add:  $0.95 + 0.08 + 1.207$ . Give the decimal sum.
21. Regrouping with decimals (focused on 21.3): Add  $21.3 + 3.85 + 0.27$ . Show final answer.
22. Regrouping with decimals (focused on 21.3): Subtract  $21.3 - 0.94$ . Show regrouping and answer.
23. Add:  $15.48 + 6.57$ . Explain each regrouping step.
24. Subtract:  $10.002 - 3.789$ . (Include thousandths.) Show regrouping.
25. A recipe needs 0.75 liter of milk. You have 0.3 L and 0.45 L. Do you have enough? Show addition and answer.
26. A store sells ribbon by the meter. Tara bought 2.6 m and then 0.85 m. How much ribbon did she buy in all? Show regrouping if needed.
27. Multiply:  $4 \times 2.15$ . (Multiply a decimal by a whole number; show if regrouping in place value is needed.)
28. A jogger ran 3.4 miles on Monday and 4.67 miles on Tuesday. What is the total distance? Show addition and any regrouping.



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29. Subtract:  $5.0 - 2.68$ . Explain regrouping from the ones to tenths and hundredths.
30. Convert  $0.125$  to a fraction and to expanded decimal form (tenths, hundredths, thousandths).
31. Write  $9.09$  in words, fraction form, and expanded form.
32. A classroom fish tank has  $12.5$  liters of water. After adding  $0.75$  L and then spilling  $0.43$  L, how many liters remain? Show steps.
33. Add:  $0.999 + 0.001$ . Explain what happens in regrouping.
34. A package weighs  $2.45$  kg. Another weighs  $0.755$  kg. What is their combined weight? Show addition and regrouping through thousandths.
35. Subtract:  $7.200 - 3.875$ . Show regrouping and answer.
36. A baker uses  $1.2$  kg of flour for cookies and  $0.95$  kg for cake. If he had  $3.0$  kg to start, how much flour is left? Show steps.
37. Express  $0.4$  as fraction, percent, and in words. Then order the values  $0.4$ ,  $0.39$ , and  $0.401$  from least to greatest.
38. Add:  $18.75 + 2.5 + 0.125$ . Give the sum and show regrouping if needed.
39. Subtract:  $20.0 - 3.456$ . Show regrouping through thousandths.
40. A ribbon is  $21.3$  meters long. You cut off  $5.67$  m, then  $3.85$  m. How much ribbon remains? Show regrouping and answer.
41. Convert  $0.875$  to a fraction in simplest form and give its decimal expanded form.
42. Write  $14.009$  in words and show the place value of each digit.
43. A toy costs  $6.49$ . You pay with a  $10$  bill. How much change should you get? Show subtraction with regrouping.
44. Add:  $0.56 + 0.444 + 1.0$ . Give the sum.
45. Round  $3.678$  to the nearest tenth and to the nearest hundredth.
46. Subtract:  $100.0 - 58.374$ . Show regrouping and final answer.
47. A swimming pool is filled with  $12.5$  liters, then  $7.75$  liters more, and then decreased by  $2.345$  liters. What is the final amount? Show steps.
48. Convert  $21.3$  to a mixed number with denominator  $10$  and as an improper fraction.
49. A class collects  $0.2$  kg,  $0.35$  kg,  $0.125$  kg, and  $0.325$  kg of recyclables. How much do they collect in total? Show addition and regrouping.
50. Explain in one sentence how regrouping (borrowing/carrying) with decimals is the same as regrouping with whole numbers.