

Introduction to Decimals — Tenths and Hundredths

Unit: Decimals - Student Practice Worksheet

Overview: The tailor's tape measure read 2.45 metres for the curtain fabric. Pixel the class robot was building a table of measurements and needed to sort them smallest to largest. It sorted 2.45 ABOVE 2.5, and nobody could work out why until they looked at what it was actually comparing.

Practice Questions (30 Total)

Section A - Easy

Q1. Five tenths of the bar. How is 0.5 said in words?



0.5 = 5 tenths

- ☐ A. Five tenths
- ☐ B. Five hundredths
- ☐ C. Fifty ones
- ☐ D. Five ones

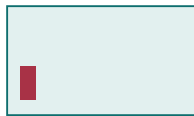
Q2. Write 'three tenths' as a decimal.

- ☐ A. 3.0
- ☐ B. 0.03
- ☐ C. 3.3
- ☐ D. 0.3

Q3. Write 0.25 in words.

- ☐ A. Twenty-five tenths
- ☐ B. Twenty-five hundredths
- ☐ C. Two point five
- ☐ D. Two and five

Q4. Seven tiny hundredths shaded. Decimal?



7 of 100 = 0.07

- ☐ A. 7.00
- ☐ B. 0.7
- ☐ C. 0.70
- ☐ D. 0.07

Q5. State the place value of the 4 in 0.4.

- ☐ A. 4 hundredths
- ☐ B. 4 tenths
- ☐ C. 4 ones
- ☐ D. 4 thousandths

Q6. State the place value of the 6 in 0.06.

- ☐ A. 6 tenths
- ☐ B. 6 thousandths
- ☐ C. 6 hundredths
- ☐ D. 6 ones

Q7. Three of ten equal parts. Decimal for 3/10?



$3/10 = 0.3$

- ☐ A. 0.3
- ☐ B. 3.0
- ☐ C. 0.03
- ☐ D. 3.10

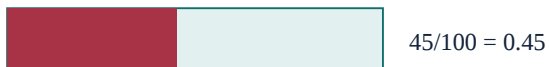
Q8. Write 0.9 as a fraction.

- ☐ A. 9/100
- ☐ B. 9/1
- ☐ C. 9/10
- ☐ D. 1/9

Q9. Write 0.07 as a fraction.

- ☐ A. $7/10$
- ☐ B. $7/100$
- ☐ C. $70/100$
- ☐ D. $7/1000$

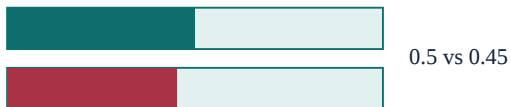
Q10. Write $45/100$ as a decimal and match the bar.



- ☐ A. 45.0
- ☐ B. 4.5
- ☐ C. 0.45
- ☐ D. 0.045

Section B - Medium

Q11. Teal bar is 0.5, maroon is 0.45. Which is greater?



- ☐ A. 0.45
- ☐ B. They are equal
- ☐ C. 0.5
- ☐ D. Cannot be compared

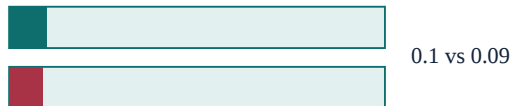
Q12. Write 2.35 in expanded form.

- ☐ A. $2 + 0.3 + 0.05$
- ☐ B. $2 + 3 + 5$
- ☐ C. $2 + 0.35$
- ☐ D. $2 + 3.5$

Q13. Write 12.5 as a mixed fraction.

- ☐ A. $125/10$
- ☐ B. $12 \frac{5}{100}$
- ☐ C. $12 \frac{1}{5}$
- ☐ D. $12 \frac{1}{2}$

Q14. Teal bar is 0.1, maroon is 0.09. Which is greater?



- ☐ A. 0.09
- ☐ B. 0.1
- ☐ C. They are equal
- ☐ D. Cannot be compared

Q15. Write 6.04 in words.

- ☐ A. Six point four
- ☐ B. Six and four hundredths
- ☐ C. Six and forty hundredths
- ☐ D. Six and four tenths

Q16. Write $5 \frac{3}{10}$ as a decimal.

- ☐ A. 5.3
- ☐ B. 5.03
- ☐ C. 50.3
- ☐ D. 53.0

Q17. Three marks on a line: 0.03, 0.3, 0.33. Ascending order?



- ☐ A. 0.33, 0.3, 0.03
- ☐ B. 0.3, 0.03, 0.33
- ☐ C. 0.03, 0.33, 0.3
- ☐ D. 0.03, 0.3, 0.33

Q18. State the place value of 5 in 12.05.

- ☐ A. 5 tenths
- ☐ B. 5 hundredths
- ☐ C. 5 ones
- ☐ D. 5 thousandths

Q19. Write 0.125 in words.

- ☐ A. One hundred twenty-five tenths
- ☐ B. One hundred twenty-five thousandths
- ☐ C. Twelve and a half hundredths
- ☐ D. One point two five

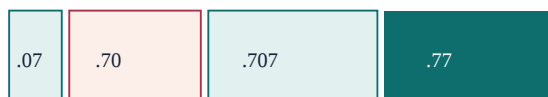
Q20. In 7.25 the 7 sits in the ones cell. Place value?



- ☐ A. 7 tenths
- ☐ B. 7 tens
- ☐ C. 7 ones
- ☐ D. 7 hundredths

Section C - Challenge

Q21. Lined-up decimals 0.7, 0.07, 0.77, 0.707. Ascending?



- ☐ A. 0.07, 0.7, 0.707, 0.77
- ☐ B. 0.07, 0.7, 0.77, 0.707
- ☐ C. 0.7, 0.07, 0.707, 0.77
- ☐ D. 0.07, 0.707, 0.7, 0.77

Q22. Write 0.75 as a fraction in simplest form.

- ☐ A. $75/100$
- ☐ B. $7/10$
- ☐ C. $3/4$
- ☐ D. $15/20$

Q23. Write 0.008 as a fraction in simplest form.

- ☐ A. $8/1000$
- ☐ B. $8/100$
- ☐ C. $4/500$
- ☐ D. $1/125$

Q24. Teal 2.5 versus maroon 2.45. Greater value?



- ☐ A. 2.45
- ☐ B. 2.5
- ☐ C. They are equal
- ☐ D. Cannot be compared

Q25. Write 'twelve and five hundredths' as a decimal.

- ☐ A. 12.5
- ☐ B. 12.05
- ☐ C. 12.50
- ☐ D. 125.0

Q26. Write a decimal that lies between 0.4 and 0.5.

- ☐ A. 0.54
- ☐ B. 0.05
- ☐ C. 0.4
- ☐ D. 0.45

Q27. Lined-up 1.01, 1.1, 1.001, 1.011. Descending?



- ☐ A. 1.1, 1.011, 1.01, 1.001
- ☐ B. 1.1, 1.01, 1.011, 1.001
- ☐ C. 1.011, 1.1, 1.01, 1.001
- ☐ D. 1.001, 1.01, 1.011, 1.1

Q28. Are 0.6 and 0.60 equal?

- ☐ A. No, 0.60 is bigger
- ☐ B. No, 0.6 is bigger
- ☐ C. Yes
- ☐ D. Only if rounded

Q29. State the place value of 3 in 45.036.

- ☐ A. 3 tenths
- ☐ B. 3 hundredths
- ☐ C. 3 thousandths
- ☐ D. 3 ones

Q30. Pixel compared 2.45 and 2.5 by treating '45' and '5' as whole numbers. What was the actual bug in its reasoning?



- ☐ A. It ignored the ones digit
- ☐ B. It rounded incorrectly
- ☐ C. It treated tenths and hundredths as the same size piece
- ☐ D. It read the numbers backwards

Answer Key

- Q1:** (A) (a) Five tenths. The first column after the point is tenths.
- Q2:** (D) (d) 0.3. Three tenths goes straight into the first column after the point.
- Q3:** (B) (b) Twenty-five hundredths. Two digits after the point means the hundredths column.
- Q4:** (D) (d) 0.07. Hundredths needs two decimal places, with a placeholder zero in the tenths column.
- Q5:** (B) (b) 4 tenths. It sits directly after the decimal point.
- Q6:** (C) (c) 6 hundredths. It sits in the second column after the point; the 0 before it holds the tenths column.
- Q7:** (A) (a) 0.3. Three tenths is exactly this.
- Q8:** (C) (c) $\frac{9}{10}$. One decimal place means tenths.
- Q9:** (B) (b) $\frac{7}{100}$. Two decimal places means hundredths.
- Q10:** (C) (c) 0.45. Forty-five hundredths fills both decimal places.
- Q11:** (C) (c) 0.5. Comparing tenths first: 5 beats 4, so the hundredths column never even needs checking.
- Q12:** (A) (a) $2 + 0.3 + 0.05$. Option (b) uses face values as if place value did not apply past the point.
- Q13:** (D) (d) $12\frac{1}{2}$. Five tenths simplifies to one half. Option (a) is correct in value but is improper, not mixed.
- Q14:** (B) (b) 0.1. Its tenths digit is 1 against 0, and that one column settles it before hundredths matter at all.
- Q15:** (B) (b) Six and four hundredths. The zero must be spoken — it is not 'six point four', which would be 6.4, a different number.
- Q16:** (A) (a) 5.3. Three tenths after five wholes. Option (c) has the same value but with an unnecessary trailing zero.
- Q17:** (D) (d) 0.03, 0.3, 0.33. Comparing tenths digits first: 0, 3, 3 — then hundredths splits the tie between the last two.
- Q18:** (B) (b) 5 hundredths. It is the second digit after the point, with a zero holding the tenths column.
- Q19:** (B) (b) One hundred twenty-five thousandths. Three decimal places means thousandths.
- Q20:** (C) (c) 7 ones. It sits before the decimal point, in the whole-number part.
- Q21:** (A) (a) 0.07, 0.7, 0.707, 0.77. Pad to three places: 0.070, 0.700, 0.707, 0.770 — now compare digit by digit.
- Q22:** (C) (c) $\frac{3}{4}$. Divide $\frac{75}{100}$ by their HCF of 25. Option (d) is equivalent but not fully simplified.
- Q23:** (D) (d) $\frac{1}{125}$. $\frac{8}{1000}$ simplifies by dividing both parts by 8. Option (c) is equivalent but not fully simplified.

Q24: (B) (b) 2.5. Whole parts match at 2; tenths decide it, 5 against 4.

Q25: (B) (b) 12.05. Five hundredths needs a zero to hold the tenths column ahead of it — option (a) is twelve and five TENTHS instead.

Q26: (D) (d) 0.45. Its tenths digit is 4, matching 0.4, but its hundredths digit pushes it slightly higher, still under 0.5.

Q27: (A) (a) 1.1, 1.011, 1.01, 1.001. Pad to three places: 1.100, 1.011, 1.010, 1.001, then read the tenths digit first, largest to smallest.

Q28: (C) (c) Yes. $6/10$ and $60/100$ are the same amount — the trailing zero adds nothing.

Q29: (B) (b) 3 hundredths. It is the second digit after the point; the 0 holds the tenths column ahead of it.

Q30: (C) (c) It treated tenths and hundredths as the same size piece. 45 and 5 look comparable as whole numbers, but they sit in columns worth very different amounts.

You've got this! Keep learning and shining! - Ruchi Math Coaching