

Multiplying and Dividing Decimals by 10, 100 and 1000

Unit: Decimals - Student Practice Worksheet

Overview: A lab technician needed to convert 0.045 litres of solution into millilitres, fast, with a class of ten-year-olds watching. No calculator, no long multiplication. Just a pen and about two seconds. She didn't multiply anything — she moved a dot.

Practice Questions (30 Total)

Section A - Easy

Q1. Point slides one place right. 2.5×10 ?



- ☐ A. 25
- ☐ B. 2.50
- ☐ C. 0.25
- ☐ D. 250

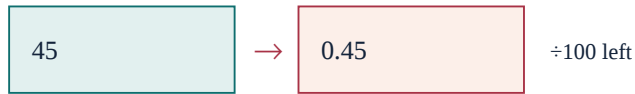
Q2. Compute 3.4×100

- ☐ A. 34
- ☐ B. 340
- ☐ C. 0.34
- ☐ D. 3400

Q3. Compute $5.6 \div 10$

- ☐ A. 56
- ☐ B. 5.06
- ☐ C. 0.056
- ☐ D. 0.56

Q4. Point slides two places left. $45 \div 100$?



- ☐ A. 0.45
- ☐ B. 4.5
- ☐ C. 0.045
- ☐ D. 450

Q5. Compute 0.7×10

- ☐ A. 0.07
- ☐ B. 70
- ☐ C. 7
- ☐ D. 0.70

Q6. Compute $8 \div 10$

- ☐ A. 80
- ☐ B. 0.08
- ☐ C. 0.8
- ☐ D. 8.0

Q7. Point slides two places right. 0.05×100 ?



- ☐ A. 0.5
- ☐ B. 50
- ☐ C. 500
- ☐ D. 5

Q8. Compute 1.2×1000

- ☐ A. 12
- ☐ B. 1200
- ☐ C. 120
- ☐ D. 0.12

Q9. Compute 6.7×10

- ☐ A. 0.67
- ☐ B. 67
- ☐ C. 670
- ☐ D. 6.70

Q10. Slide three places left: $900 \div 1000$.



- ☐ A. 0.9
- ☐ B. 9
- ☐ C. 90
- ☐ D. 0.09

Section B - Medium

Q11. Three places right: 0.045×1000 ?



- ☐ A. 45
- ☐ B. 4.5
- ☐ C. 450
- ☐ D. 0.45

Q12. Compute $12.5 \div 100$

- ☐ A. 1.25
- ☐ B. 0.125
- ☐ C. 125
- ☐ D. 0.0125

Q13. Compute $7 \div 1000$

- ☐ A. 0.7
- ☐ B. 0.07
- ☐ C. 70
- ☐ D. 0.007

Q14. Two places right: 3.06×100 ?



- ☐ A. 3060
- ☐ B. 30.6
- ☐ C. 306
- ☐ D. 0.306

Q15. Compute $250 \div 100$

- ☐ A. 0.25
- ☐ B. 25
- ☐ C. 2.5
- ☐ D. 2500

Q16. Compute $45.6 \div 10$

- ☐ A. 456
- ☐ B. 0.456
- ☐ C. 45.06
- ☐ D. 4.56

Q17. Two places right: 0.008×100 ?



- ☐ A. 0.08
- ☐ B. 8
- ☐ C. 0.8
- ☐ D. 80

Q18. Compute 0.9×1000

- ☐ A. 900
- ☐ B. 90
- ☐ C. 9000
- ☐ D. 0.0009

Q19. Compute $5000 \div 1000$

- ☐ A. 50
- ☐ B. 5
- ☐ C. 0.5
- ☐ D. 500

Q20. Slide three places right: 1.234×1000 .



- ☐ A. 1234
- ☐ B. 123.4
- ☐ C. 12340
- ☐ D. 0.1234

Section C - Challenge

Q21. 2.5, then $\times 10$, then $\times 100$. Product?



- ☐ A. 2500
- ☐ B. 250
- ☐ C. 25000
- ☐ D. 0.25

Q22. Compute $450 \div 10 \div 100$

- ☐ A. 4.5
- ☐ B. 0.45
- ☐ C. 45
- ☐ D. 0.045

Q23. Compute $6.25 \times 100 \div 1000$

- ☐ A. 6.25
- ☐ B. 62.5
- ☐ C. 0.0625
- ☐ D. 0.625

Q24. Tape 3.5 m converted to centimetres. How many cm?



- ☐ A. 350 cm
- ☐ B. 35 cm
- ☐ C. 3500 cm
- ☐ D. 0.35 cm

Q25. Convert 4500 g to kilograms.

- ☐ A. 45 kg
- ☐ B. 4.5 kg
- ☐ C. 0.45 kg
- ☐ D. 45000 kg

Q26. Convert 250 ml to litres.

- ☐ A. 2.5 L
- ☐ B. 25 L
- ☐ C. 0.025 L
- ☐ D. 0.25 L

Q27. 0.75 km on a road sign, in metres. How many m?



- ☐ A. 75 m
- ☐ B. 7.5 m
- ☐ C. 750 m
- ☐ D. 7500 m

Q28. Compute 0.0032×10000

- ☐ A. 3.2
- ☐ B. 320
- ☐ C. 32
- ☐ D. 3200

Q29. Convert 6.05 kg to grams.

- ☐ A. 605 g
- ☐ B. 6050 g
- ☐ C. 60500 g
- ☐ D. 0.605 g

Q30. 12.5×1000 then $\div 100$. Net result?



- ☐ A. 125
- ☐ B. 12.5
- ☐ C. 1.25
- ☐ D. 1250

Answer Key

- Q1:** (A) (a) 25. The point slides one place right.
- Q2:** (B) (b) 340. Two zeros in 100 means the point slides two places right.
- Q3:** (D) (d) 0.56. Dividing slides the point one place left.
- Q4:** (A) (a) 0.45. Two places left for dividing by 100.
- Q5:** (C) (c) 7. The point slides one place right, and the trailing zero can be dropped.
- Q6:** (C) (c) 0.8. First give 8 a decimal point (8.0), then slide it one place left.
- Q7:** (D) (d) 5. Two places right, and the leading zeros disappear once the point passes them.
- Q8:** (B) (b) 1200. Three places right for multiplying by 1000.
- Q9:** (B) (b) 67. One place right.
- Q10:** (A) (a) 0.9. Three places left, padding with a leading zero as needed.
- Q11:** (A) (a) 45. Three places right — exactly Priya's litres-to-millilitres conversion.
- Q12:** (B) (b) 0.125. Two places left.
- Q13:** (D) (d) 0.007. Give 7 three decimal places first (7.000), then slide left.
- Q14:** (C) (c) 306. Two places right.
- Q15:** (B) (b) 25. Two places left.
- Q16:** (D) (d) 4.56. One place left.
- Q17:** (C) (c) 0.8. Two places right.
- Q18:** (A) (a) 900. Three places right.
- Q19:** (B) (b) 5. Three places left.
- Q20:** (A) (a) 1234. Three places right, using up every decimal digit exactly.
- Q21:** (A) (a) 2500. Together that is $\times 1000$, so three places right in total.
- Q22:** (B) (b) 0.45. Together that is $\div 1000$, so three places left in total.
- Q23:** (D) (d) 0.625. Two places right then three places left nets one place left overall.
- Q24:** (A) (a) 350 cm. One metre is 100 cm, so multiply by 100 — two places right.
- Q25:** (B) (b) 4.5 kg. One kg is 1000 g, so divide by 1000 — three places left.
- Q26:** (D) (d) 0.25 L. Divide by 1000 — three places left.
- Q27:** (C) (c) 750 m. One km is 1000 m, so multiply by 1000 — three places right.
- Q28:** (C) (c) 32. Four zeros in 10000 means four places right.
- Q29:** (B) (b) 6050 g. Multiply by 1000 — three places right, carrying the existing two decimal digits along with an extra zero.
- Q30:** (A) (a) 125. Three places right then two places left nets one place right overall.

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