



Multiplication and Division of Decimals

Examples

$$\begin{aligned}
 1.05 \times 500 &= 1.05 \times 5 \times 100 \\
 &= 5.25 \times 100 \\
 &= 525
 \end{aligned}$$

$$\begin{aligned}
 0.49 \times 8000 &= 0.49 \times 8 \times 1000 \\
 &= 3.92 \times 1000 \\
 &= 3920
 \end{aligned}$$

Multiply these decimals without the use of calculators.

1 $0.2 \times 40 = 0.2 \times \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

2 $68.35 \times 90 = 68.35 \times \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

3 $204.56 \times 700 = 204.56 \times \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

4 $50.9 \times 6000 = 50.9 \times \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

5 $74.21 \times 3000 = 74.21 \times \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

Adapted:

Learning Maths Book 5

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Examples

$$\begin{aligned}45 \div 50 &= 45 \div 5 \div 10 \\ &= 9 \div 10 \\ &= \mathbf{0.9}\end{aligned}$$

$$\begin{aligned}61.5 \div 300 &= 61.5 \div 3 \div 100 \\ &= 20.5 \div 100 \\ &= \mathbf{0.205}\end{aligned}$$

Divide these decimals without the use of calculators.

6. $2.4 \div 20 = 2.4 \div \underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

7. $4.05 \div 50 = 4.05 \div \underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

8. $84 \div 700 = 84 \div \underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

9. $178 \div 400 = 178 \div \underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

10. $90 \div 3000 = 90 \div \underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

6 2, 10, 0.12
1 4, 10, 8
2 9, 10, 6151.5
3 7, 100, 143 192
4 6, 1000, 305 400
5 3, 1000, 222 630
6 2, 10, 0.12
7 5, 10, 0.081
8 7, 100, 0.12
9 4, 100, 0.445
10 3, 1000, 0.03

Answers: