



# Decimal Place Value Puzzles

To multiply and divide numbers by 10, 100 and 1000 to solve number puzzles.



Use your place value understanding of multiplying and dividing by 10, 100 and 1000 to calculate the answers to these missing number puzzles:

$$\boxed{4.8} \rightarrow \boxed{\times 10} \rightarrow \boxed{\times 10} \rightarrow \boxed{\times 5} \rightarrow \boxed{\times 10} = \triangle$$

$$\boxed{3.9} \rightarrow \boxed{\times 10} \rightarrow \boxed{\times 10} \rightarrow \boxed{\times 3} \rightarrow \boxed{\times 10} = \triangle$$

$$\boxed{2956} \rightarrow \boxed{\div 10} \rightarrow \boxed{\div 10} \rightarrow \boxed{\times 4} \rightarrow \boxed{\div 10} = \triangle$$

$$\boxed{9876} \rightarrow \boxed{\div 10} \rightarrow \boxed{\div 10} \rightarrow \boxed{\times 8} \rightarrow \boxed{\div 10} = \triangle$$

$$\boxed{8.27} \rightarrow \boxed{\times 1000} \rightarrow \boxed{\div 10} \rightarrow \boxed{\times 9} \rightarrow \boxed{\div 100} = \triangle$$

$$\boxed{29\ 774} \rightarrow \boxed{\div 1000} \rightarrow \boxed{\times 10} \rightarrow \boxed{\times 6} \rightarrow \boxed{\div 10} = \triangle$$



# Decimal Place Value Puzzles

To multiply and divide numbers by 10, 100 and 1000 to solve number puzzles.



Use your place value understanding of multiplying and dividing by 10, 100 and 1000 to find the value of the shapes in these missing number puzzles:

$$\boxed{7.3} \rightarrow \boxed{\times 10} \rightarrow \boxed{\times 10} \rightarrow \boxed{\times 5} \rightarrow \boxed{\times 10} = \triangle$$

$$\boxed{8.2} \rightarrow \boxed{\times 10} \rightarrow \boxed{\times 10} \rightarrow \boxed{\times 3} \rightarrow \boxed{\times 10} = \triangle$$

$$\boxed{5920} \rightarrow \boxed{\div 10} \rightarrow \boxed{\div 10} \rightarrow \boxed{\times 4} \rightarrow \boxed{\div 10} = \triangle$$

$$\boxed{9943} \rightarrow \boxed{\div 10} \rightarrow \boxed{\div 10} \rightarrow \times \triangle \rightarrow \boxed{\div 10} = 79.544$$

$$\boxed{4.47} \rightarrow \boxed{\times 1000} \rightarrow \boxed{\div 10} \rightarrow \times \triangle \rightarrow \boxed{\div 100} = 40.23$$

$$\boxed{65\ 286} \rightarrow \boxed{\div 1000} \rightarrow \boxed{\times 10} \rightarrow \times \triangle \rightarrow \boxed{\div 10} = 391.716$$



# Decimal Place Value Puzzles

To multiply and divide numbers by 10, 100 and 1000 to solve number puzzles.



Use your place value understanding of multiplying and dividing by 10, 100 and 1000 to find the value of the shapes in these missing number puzzles:

$$\boxed{7.325} \rightarrow \boxed{\times 100} \rightarrow \boxed{\times 10} \rightarrow \boxed{\times 2} \rightarrow \boxed{\div 1000} = \triangle$$

$$\boxed{82902} \rightarrow \boxed{\div 1000} \rightarrow \boxed{\div 10} \rightarrow \boxed{\times 2} \rightarrow \boxed{\times 100} = \triangle$$

$$\boxed{463.2} \rightarrow \boxed{\div 2} \rightarrow \boxed{\div 100} \rightarrow \boxed{\times 3} \rightarrow \boxed{\div 100} \rightarrow \boxed{\times 10} = \triangle$$

$$\boxed{5.894} \rightarrow \boxed{\times 100} \rightarrow \boxed{\times 10} \rightarrow \times \triangle \rightarrow \boxed{\div 10} = 1768.2$$

$$\boxed{37926} \rightarrow \boxed{\div 100} \rightarrow \boxed{\div 10} \rightarrow \times \triangle \rightarrow \boxed{\div 10} = 9.4815$$

$$\boxed{9948.88} \rightarrow \boxed{\div 2} \rightarrow \boxed{\div 10} \rightarrow \times \triangle \rightarrow \boxed{\div 100} \rightarrow \boxed{\times 10} = 248.722$$



# Decimal Place Value Puzzles **Answers**

Use your place value understanding of multiplying and dividing by 10, 100 and 1000 to calculate the answers to these missing number puzzles:

$$\boxed{4.8} \rightarrow \boxed{\times 10} \rightarrow \boxed{\times 10} \rightarrow \boxed{\times 5} \rightarrow \boxed{\times 10} = \mathbf{24\ 000}$$

$$\boxed{3.9} \rightarrow \boxed{\times 10} \rightarrow \boxed{\times 10} \rightarrow \boxed{\times 3} \rightarrow \boxed{\times 10} = \mathbf{11\ 700}$$

$$\boxed{2956} \rightarrow \boxed{\div 10} \rightarrow \boxed{\div 10} \rightarrow \boxed{\times 4} \rightarrow \boxed{\div 10} = \mathbf{11.824}$$

$$\boxed{9876} \rightarrow \boxed{\div 10} \rightarrow \boxed{\div 10} \rightarrow \boxed{\times 8} \rightarrow \boxed{\div 10} = \mathbf{79.008}$$

$$\boxed{8.27} \rightarrow \boxed{\times 1000} \rightarrow \boxed{\div 10} \rightarrow \boxed{\times 9} \rightarrow \boxed{\div 100} = \mathbf{74.43}$$

$$\boxed{29\ 774} \rightarrow \boxed{\div 1000} \rightarrow \boxed{\times 10} \rightarrow \boxed{\times 6} \rightarrow \boxed{\div 10} = \mathbf{178.644}$$



# Decimal Place Value Puzzles **Answers**

Use your place value understanding of multiplying and dividing by 10, 100 and 1000 to find the value of the shapes in these missing number puzzles:

$$\boxed{7.3} \rightarrow \boxed{\times 10} \rightarrow \boxed{\times 10} \rightarrow \boxed{\times 5} \rightarrow \boxed{\times 10} = \mathbf{36\,500}$$

$$\boxed{8.2} \rightarrow \boxed{\times 10} \rightarrow \boxed{\times 10} \rightarrow \boxed{\times 3} \rightarrow \boxed{\times 10} = \mathbf{24\,600}$$

$$\boxed{5920} \rightarrow \boxed{\div 10} \rightarrow \boxed{\div 10} \rightarrow \boxed{\times 4} \rightarrow \boxed{\div 10} = \mathbf{23.68}$$

$$\boxed{9943} \rightarrow \boxed{\div 10} \rightarrow \boxed{\div 10} \rightarrow \times \mathbf{8} \rightarrow \boxed{\div 10} = \mathbf{79.544}$$

$$\boxed{4.47} \rightarrow \boxed{\times 1000} \rightarrow \boxed{\div 10} \rightarrow \times \mathbf{9} \rightarrow \boxed{\div 100} = \mathbf{40.23}$$

$$\boxed{65\,286} \rightarrow \boxed{\div 1000} \rightarrow \boxed{\times 10} \rightarrow \times \mathbf{6} \rightarrow \boxed{\div 10} = \mathbf{391.716}$$



# Decimal Place Value Puzzles **Answers**

Use your place value understanding of multiplying and dividing by 10, 100 and 1000 to find the value of the shapes in these missing number puzzles:

$$\boxed{7.325} \rightarrow \boxed{\times 100} \rightarrow \boxed{\times 10} \rightarrow \boxed{\times 2} \rightarrow \boxed{\div 1000} = 14.65$$

$$\boxed{82\ 902} \rightarrow \boxed{\div 1000} \rightarrow \boxed{\div 10} \rightarrow \boxed{\times 2} \rightarrow \boxed{\times 100} = 1658.04$$

$$\boxed{463.2} \rightarrow \boxed{\div 2} \rightarrow \boxed{\div 100} \rightarrow \boxed{\times 3} \rightarrow \boxed{\div 100} \rightarrow \boxed{\times 10} = 0.6948$$

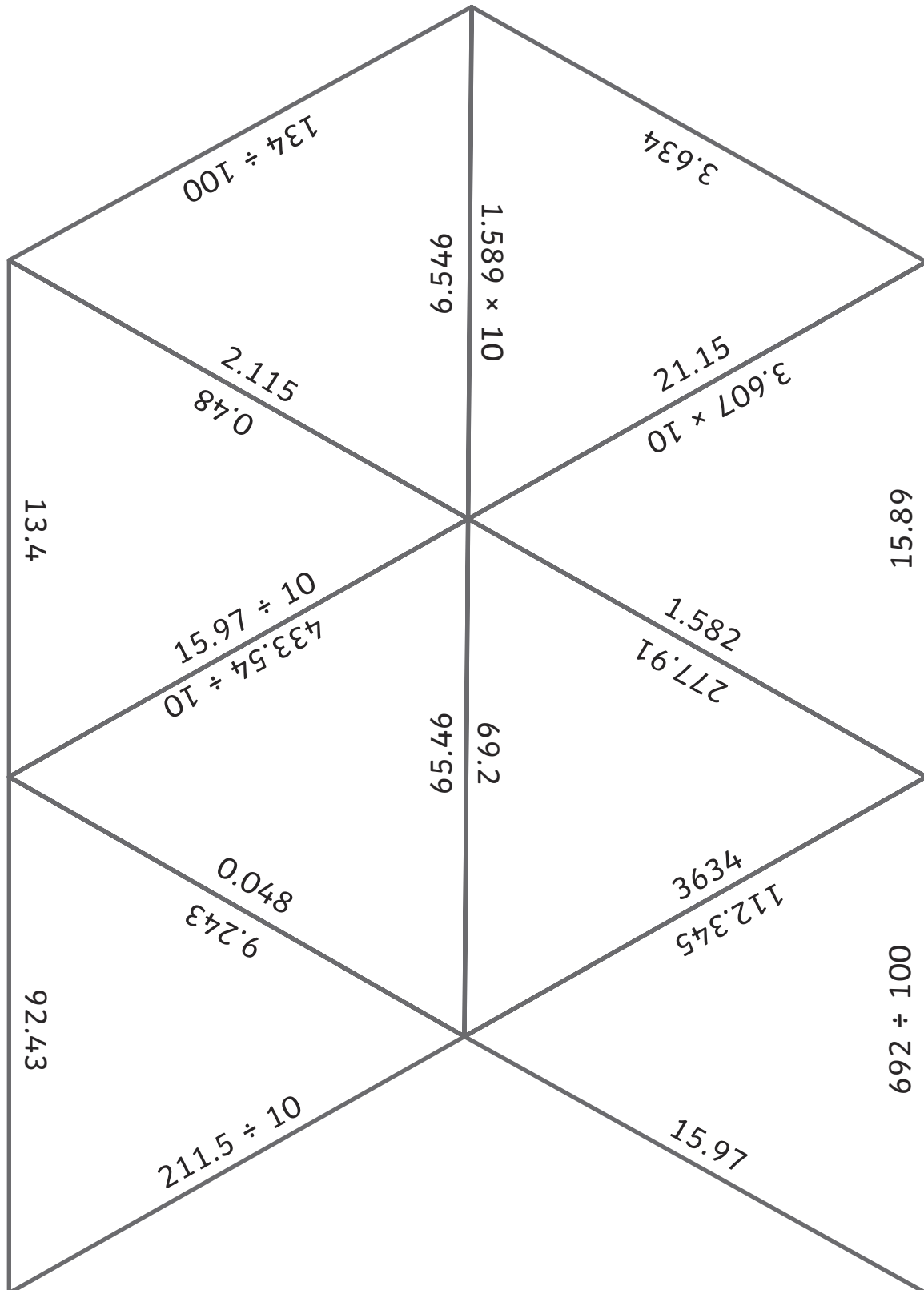
$$\boxed{5.894} \rightarrow \boxed{\times 100} \rightarrow \boxed{\times 10} \rightarrow \times 3 \rightarrow \boxed{\div 10} = 1768.2$$

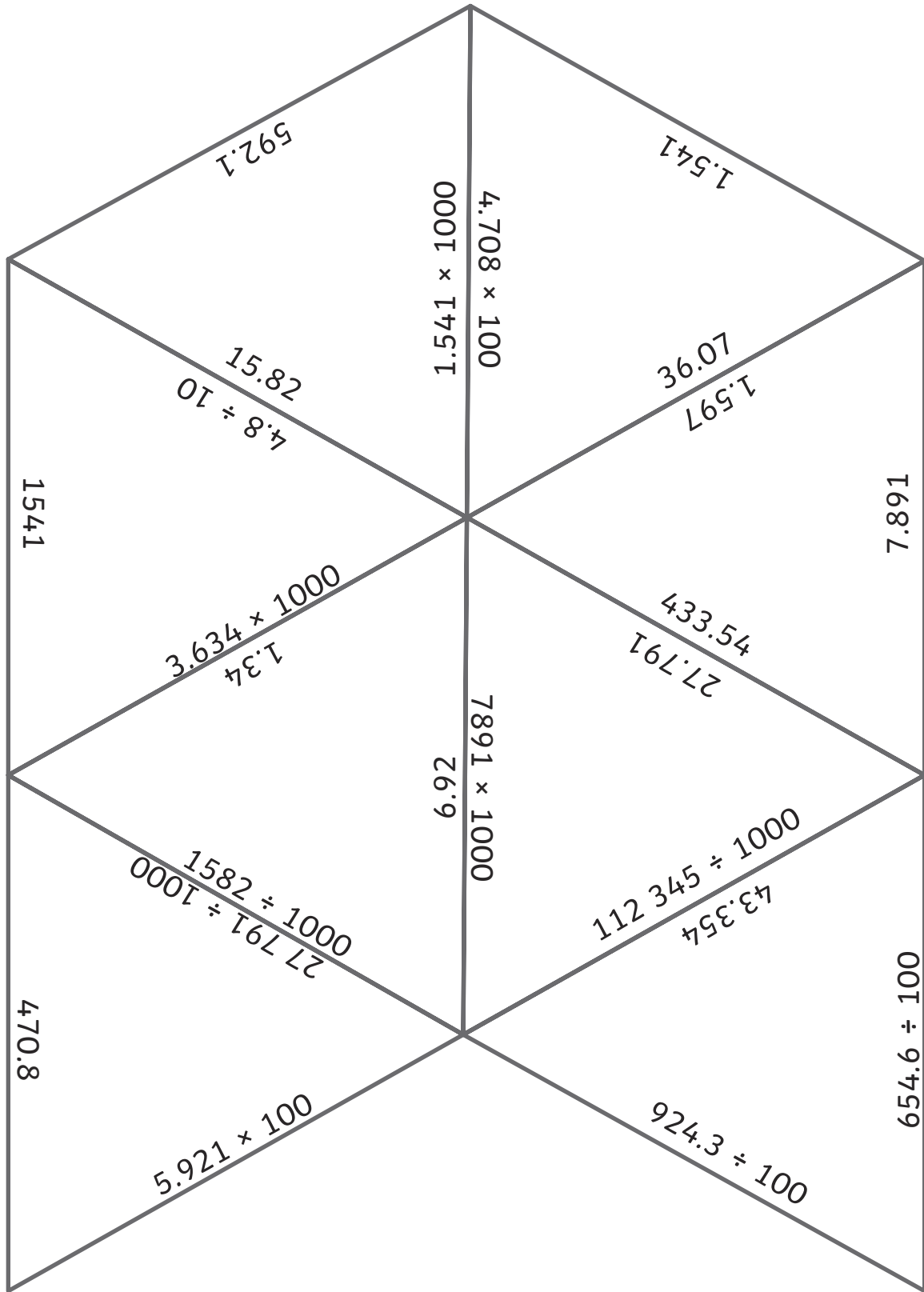
$$\boxed{37\ 926} \rightarrow \boxed{\div 100} \rightarrow \boxed{\div 10} \rightarrow \times 2.5 \rightarrow \boxed{\div 10} = 9.4815$$

$$\boxed{9948.88} \rightarrow \boxed{\div 2} \rightarrow \boxed{\div 10} \rightarrow \times 5 \rightarrow \boxed{\div 100} \rightarrow \boxed{\times 10} = 248.722$$

# Decimal Place Value Triangular Dominoes

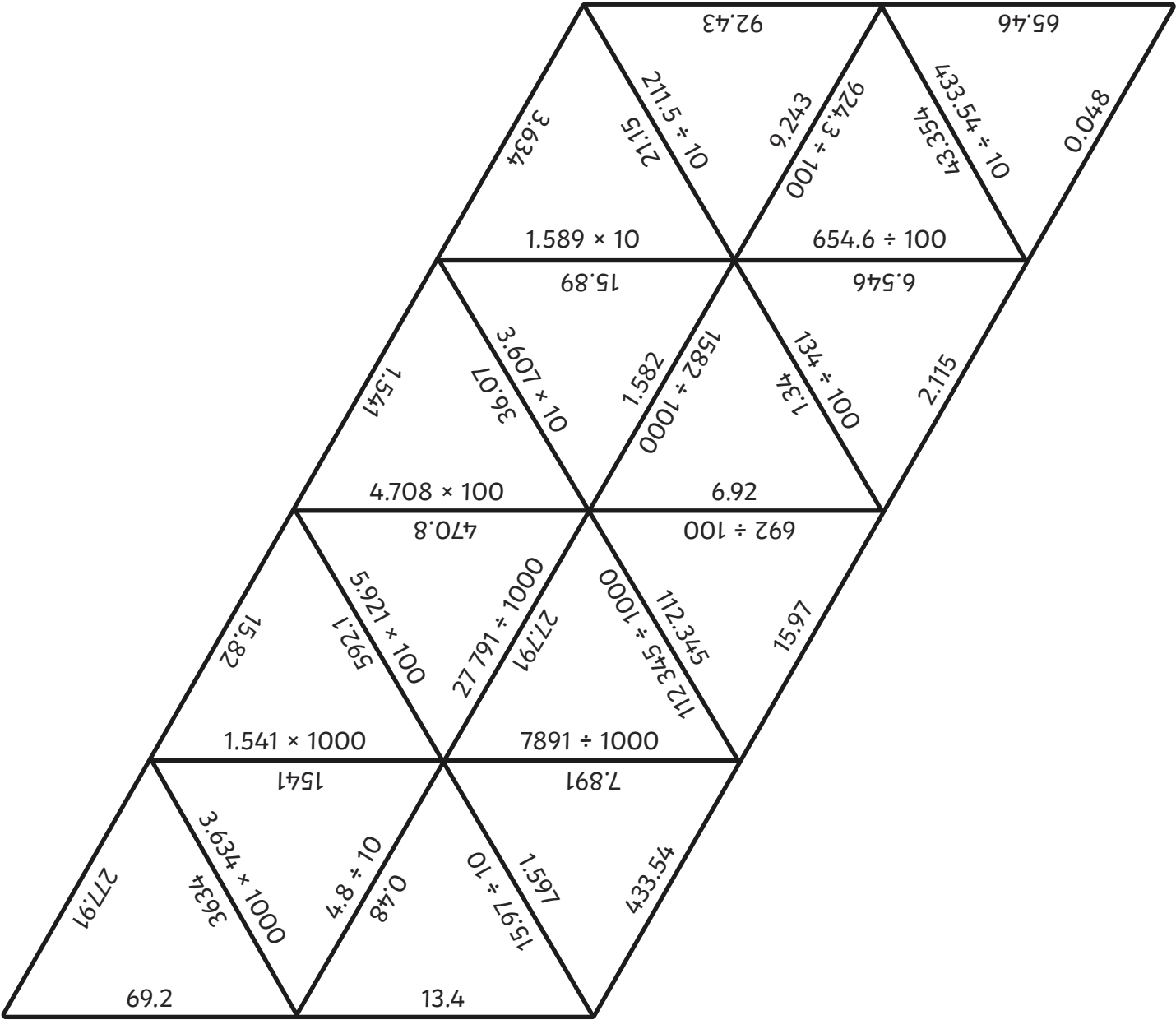
Cut out the sixteen triangles. Match the decimal number to the fraction which shows the correct value of one of its digits, to create one large parallelogram.







# Decimal Place Value Triangular Dominoes **Answers**



# Decimal Calculation Search

To multiply and divide numbers by 10, 100 and 1000 to solve number puzzles.



Hidden within this grid are 24 multiplication and division problems. They may be positioned horizontally (right), vertically (down), or diagonally (up or down to the right). Can you find them all? One of them is already circled. Draw a multiplication or division symbol to show the correct equation.

10	24	10	2.4	3.6	10	36	132	100	1.32
2.54	100	254	100	10	153	10	15.3	40	2.9
1.7	85	100	9.2	10	92	2.81	5.06	10	100
100	373	10	100	10	100	57	100	400	0.029
170	10	4.5	8.5	281	10	100	506	5.6	10
88	37.3	100	10	570	4.2	606	10	100	7.04
100	10	0.045	100	10	100	10	100	560	100
9.14	100	8.8	42	78	100	0.78	10	6.06	704
×									
100	10	100	10	0.12	10	1.2	100	10	100
=									
914	100	10	100	10	8.8	10	0.88	100	10

# Decimal Calculation Search Answers

Hidden within this grid are 24 multiplication and division problems. They may be positioned horizontally (right), vertically (down), or diagonally (up or down to the right). Can you find them all? One of them is already circled. Draw a multiplication or division symbol to show the correct equation.

10	24	10	2.4	3.6	10	36	132	100	1.32
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100	10	0.045	100	10	100	10	100	560	100
9.14	100	8.8	42	78	100	0.78	10	6.06	704
x									
100	10	100	10	0.12	10	1.2	100	10	100
=									
914	100	10	100	10	8.8	10	0.88	100	10

$$1.589 \times 10 =$$

$$4.708 \times 100 =$$

$$1.541 \times 1000 =$$

$$4.8 \times 10 =$$

$$3.607 \times 10 =$$

$$5.921 \times 100 =$$

$$3.634 \times 1000 =$$

$$15.97 \times 10 =$$

$$211.5 \div 10 =$$

$$924.3 \div 100 =$$

$$134 \div 100 =$$

$$1582 \div 1000 =$$

$$433.54 \div 10 =$$

$$654.6 \div 100 =$$

$$692 \div 100 =$$

$$2791 \div 1000 =$$

$$1.589 \times 100 =$$

$$4.708 \times 10 =$$

$$1.541 \times 100 =$$

$$4.8 \times 1000 =$$



$$3.607 \times 100 =$$

$$5.921 \times 10 =$$

$$3.634 \times 10 =$$

$$15.97 \times 1000 =$$

$$211.5 \div 100 =$$

$$924.3 \div 10 =$$

$$134 \div 10 =$$

$$1582 \div 100 =$$

$$433.5 \div 100 =$$

$$650 \div 1000 =$$

$$1692 \div 1000 =$$

$$2791 \div 100 =$$