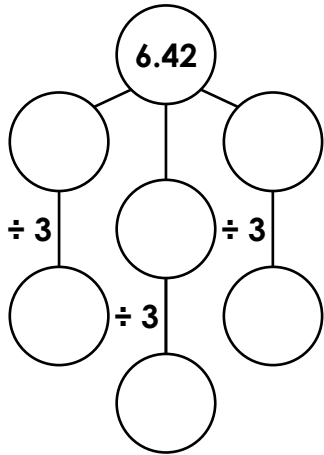


Divide Decimals by Integers

1. Complete the calculation. Use the part-whole model to partition and divide the number.



3	6	4	2

VF

4. Paul is working out the answer to the calculation below.

$$5.76 \div 4 =$$

He says,



I can use 576 divided by 4 to help answer 5.76 divided by 4. The dividend in the second division is 100 times smaller, so the quotient will be 100 times smaller.

Is Paul correct? Draw a place value chart to explain your answer.

R

2. Which written calculation matches the place value grid shown?

O	t	h
•	•	•
•	•	•
•	•	•
•	•	•
•	•	•
•	•	•

A.

6	7	9	2

B.

6	6	8	2

VF

5. Sam is dividing 9.72 by an unknown divisor. He knows that the quotient is between 1.5 and 2.5. What could the divisor be?

O	t	h
•	•	•
•	•	•
•	•	•
•	•	•
•	•	•
•	•	•

Find two possibilities.

PS

3. Annie buys five toys that cost a total of £9.85. Each toy cost the same amount. How much does one toy cost?

O	t	h

Use the place value chart to help you complete the written calculation.

VF

6. Which digits are missing from the calculation below?

		2	
7	8		2

O	t	h

Use the place value chart to help you.

R

Divide Decimals by Integers

1. 2.14

	2	•	1	4
3	6	•	4	¹ 2

2. A

3. Each toy costs £1.97.

	1	•	9	7
5	9	•	⁴ 8	³ 5

4. Paul is correct. The dividend in the second calculation has been made 100 times smaller, so the quotient is also 100 times smaller.

5.76 ÷ 4 = 1.44

576 ÷ 4 = 144

O	•	t	h
•		• • • •	• • • •
•		• • • •	• • • •
•	•	• • • •	• • • •
•		• • • •	• • • •

H	T	O
•	• • • •	• • • •
•	• • • •	• • • •
•	• • • •	• • • •
•	• • • •	• • • •

5. 4 or 6.

6.

	1	•	2	6
7	8	•	¹ 8	⁴ 2