Dividing decimals by 10, 100 and 1,000

1 Complete the divisions.

a)

H	T	O	Tths	Hths
		5		

5 ÷ 10 = ☐

b)

H	T	O	Tths	Hths
	1	5		

15 ÷ 10 = ☐

c)

H	T	O	Tths	Hths
		3	8	

3.8 ÷ 10 = ☐

d)

H	T	O	Tths	Hths
	1	3	8	

13.8 ÷ 10 = ☐

What do you notice when you divide a number by 10?

2 Complete the calculations.

a) 7 ÷ 10 = ☐

b) 7.8 ÷ 10 = ☐

c) 7.86 ÷ 10 = ☐

d) 16 ÷ 10 = ☐

e) 16.4 ÷ 10 = ☐

f) 16.48 ÷ 10 = ☐

3 Complete the divisions.

a)

H	T	O	Tths	Hths	Thths
	1	7			

17 ÷ 100 = ☐

b)

H	T	O	Tths	Hths	Thths
		9	4		

9.4 ÷ 100 = ☐

c)

H	T	O	Tths	Hths	Thths
2	7	6			

276 ÷ 100 = ☐

d)

H	T	O	Tths	Hths	Thths
	3	2	5		

32.5 ÷ 100 = ☐

What do you notice when you divide a number by 100?

4 Complete the divisions.

a) 7 ÷ 100 = ☐

7.2 ÷ 100 = ☐

7.25 ÷ 100 = ☐

b) 109 ÷ 100 = ☐

10.9 ÷ 100 = ☐

10.95 ÷ 100 = ☐

© White Rose Maths 2020

5 Use a place value chart to work out 136 ÷ 1,000

H	T	O	Tths	Hths	Thths
1	3	6			

Complete the calculation.

136 ÷ 1,000 = ☐

Talk to a partner about your method.

6 Use your knowledge of measure to work out the answers.

a) What is the mass of the box in kilograms?

☐ ÷ ☐ = ☐

b) What is the height of the sunflower in metres?

☐ ÷ ☐ = ☐

c) What is the amount of juice in litres?

☐ ÷ ☐ = ☐

7 Complete the calculations.

a) 147 ÷ 10 = ☐

147 ÷ 100 = ☐

147 ÷ 1,000 = ☐

b) 21 ÷ 10 = ☐

21 ÷ 100 = ☐

21 ÷ 1,000 = ☐

c) 3,200 ÷ 10 = ☐

3,200 ÷ 100 = ☐

3,200 ÷ 1,000 = ☐

d) 5,006 ÷ 10 = ☐

5,006 ÷ 100 = ☐

5,006 ÷ 1,000 = ☐

8 Complete the divisions.

a) 83 ÷ ☐ = 0.83

b) ☐ ÷ 10 = 0.95

c) ☐ ÷ 10 = 3.9

d) 68 ÷ ☐ = 0.068

e) 1,799 ÷ ☐ = 17.99

f) ☐ ÷ 100 = 11.8

g) 178 ÷ ☐ = 17.8

h) 3.18 ÷ ☐ = 0.318

© White Rose Maths 2020