

Dividing decimals by 10, 100 and 1,000

1 Complete the divisions.

a)

H	T	O	Tths	Hths
		5		

$$5 \div 10 = \square$$

b)

H	T	O	Tths	Hths
	1	5		

$$15 \div 10 = \square$$

c)

H	T	O	Tths	Hths
		3	8	

$$3.8 \div 10 = \square$$

1

d)

H	T	O	Tths	Hths
	1	3	8	

$13.8 \div 10 =$

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



2 Complete the calculations.

a) $7 \div 10 =$

d) $16 \div 10 =$

b) $7.8 \div 10 =$

e) $16.4 \div 10 =$

c) $7.86 \div 10 =$

f) $16.48 \div 10 =$

3 Complete the divisions.

a)

H	T	O	Tths	Hths	Thths
	1	7			

$$17 \div 100 = \square$$

b)

H	T	O	Tths	Hths	Thths
		9	4		

$$9.4 \div 100 = \square$$

c)

H	T	O	Tths	Hths	Thths
2	7	6			

$$276 \div 100 = \square$$

d)

H	T	O	Tths	Hths	Thths
	3	2	5		

$$32.5 \div 100 = \square$$

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



4

Complete the divisions.

a) $7 \div 100 =$

$7.2 \div 100 =$

$7.25 \div 100 =$

b) $109 \div 100 =$

$10.9 \div 100 =$

$10.95 \div 100 =$



5

Use a place value chart to work out $136 \div 1,000$

H	T	O	Tths	Hths	Thths
1	3	6			

Complete the calculation.

$$136 \div 1,000 = \boxed{}$$

Talk to a partner about your method.



6

Use your knowledge of measure to work out the answers.

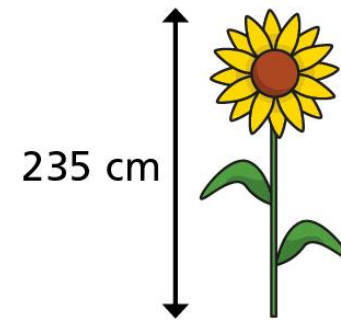
a) What is the mass of the box in kilograms?

$$\square \div \square = \square$$



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

$$\square \div \square = \square$$



c) What is the amount of juice in litres?

$$\square \div \square = \square$$



7 Complete the calculations.

a) $147 \div 10 =$

$147 \div 100 =$

$147 \div 1,000 =$

b) $21 \div 10 =$

$21 \div 100 =$

$21 \div 1,000 =$

c) $3,200 \div 10 =$

$3,200 \div 100 =$

$3,200 \div 1,000 =$

d) $5,006 \div 10 =$

$5,006 \div 100 =$

$5,006 \div 1,000 =$

8

Complete the divisions.

a) $83 \div \boxed{} = 0.83$

e) $1,799 \div \boxed{} = 17.99$

b) $\boxed{} \div 10 = 0.95$

f) $\boxed{} \div 100 = 11.8$

c) $\boxed{} \div 10 = 3.9$

g) $178 \div \boxed{} = 17.8$

d) $68 \div \boxed{} = 0.068$

h) $3.18 \div \boxed{} = 0.318$