

# Dividing decimals by 10, 100 and 1,000

1 Complete the divisions.

a) 

H	T	O	Tths	Hths
		5	.	

 $5 \div 10 =$

b) 

H	T	O	Tths	Hths
	1	5	.	

 $15 \div 10 =$

c) 

H	T	O	Tths	Hths
		3	.	8

 $3.8 \div 10 =$

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	.		

 $17 \div 100 =$

b) 

H	T	O	Tths	Hths	Thths
		9	.	4	

 $9.4 \div 100 =$

c) 

H	T	O	Tths	Hths	Thths
2	7	6	.		

 $276 \div 100 =$

d) 

H	T	O	Tths	Hths	Thths
	3	2	.	5	

 $32.5 \div 100 =$

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



4 Complete the divisions.

a)  $7 \div 100 =$        b)  $109 \div 100 =$

$7.2 \div 100 =$         $10.9 \div 100 =$

$7.25 \div 100 =$         $10.95 \div 100 =$



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.

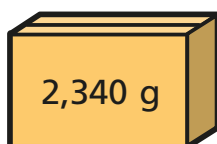
$$136 \div 1,000 = 0.136$$

Talk to a partner about your method.

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

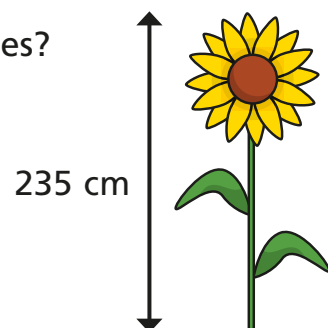
a) What is the mass of the box in kilograms?

$$2,340 \div 1,000 = 2.34$$



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

$$235 \div 100 = 2.35$$



c) What is the amount of juice in litres?

$$380 \div 1,000 = 0.38$$



7 Complete the calculations.

a)  $147 \div 10 = 14.7$

$$147 \div 100 = 1.47$$

$$147 \div 1,000 = 0.147$$

b)  $21 \div 10 = 2.1$

$$21 \div 100 = 0.21$$

$$21 \div 1,000 = 0.021$$

c)  $3,200 \div 10 = 320$

$$3,200 \div 100 = 32$$

$$3,200 \div 1,000 = 3.2$$

d)  $5,006 \div 10 = 500.6$

$$5,006 \div 100 = 50.06$$

$$5,006 \div 1,000 = 5.006$$

8 Complete the divisions.

a)  $83 \div 100 = 0.83$

b)  $9.5 \div 10 = 0.95$

c)  $39 \div 10 = 3.9$

d)  $68 \div 1,000 = 0.068$

e)  $1,799 \div 100 = 17.99$

f)  $1,180 \div 100 = 11.8$

g)  $178 \div 10 = 17.8$

h)  $3.18 \div 10 = 0.318$