

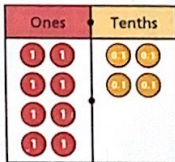
Monday Snorkelling

Divide decimals by integers

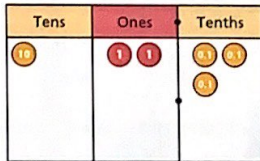
White Rose Maths

1 Use place value counters to work out the divisions.

a) $8.4 \div 4 = 2.1$

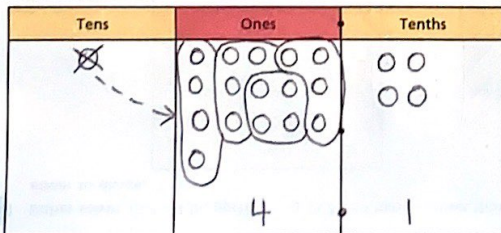


b) $12.3 \div 3 = 4.1$



2 Work out the division. Draw your answer.

$16.4 \div 4 = 4.1$



3 Brett uses short division to work out $13.2 \div 6$

		0	2	.	2
6	1	3	.	2	

Use short division to work out the calculations.

a)

		0	3	.	2
7	2	2	.	4	

b)

		0	2	.	3
8	1	8	.	4	8

4 Work out the divisions.

a) $25.6 \div 8 = 3.2$

d) $3.89 = 19.45 \div 5$

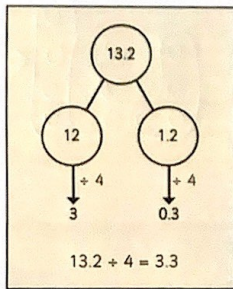
b) $14.8 \div 4 = 3.7$

e) $202.35 \div 3 = 67.45$

c) $18.48 \div 6 = 3.08$

f) $105.12 \div 9 = 11.68$

- 5 Esther solves $13.2 \div 4$ by partitioning 13.2 into two numbers that are easier to divide.



Use Esther's method to complete the part-whole model and calculation.

a)

$9.2 \div 4 = 2.3$

b)

$16.5 \div 3 = 5.5$

$9.2 \div 4 = 2.3$

$16.5 \div 3 = 5.5$

Compare answers with a partner. Did you partition your numbers in the same way?

- 6 Work out the divisions.

a) $9.64 \div 4 = 2.41$

$96.4 \div 4 = 24.1$

$0.964 \div 4 = 0.241$

$9.64 \div 8 = 1.205$

b) $19.44 \div 9 = 2.16$

$19.53 \div 9 = 2.17$

$19.62 \div 9 = 2.18$

- 7 Fill in the missing numbers.

$3.6 \div 4 = 36 \div 40$

$3.6 \div 4 = 7.2 \div 8$

- 8 Complete the calculation.

$8.4 \div 4 = 4.2 \div 2$

How many different solutions can you find?

The first number must be double the second because 8.4 is double 4.2

What patterns do you notice? Talk about it with a partner.