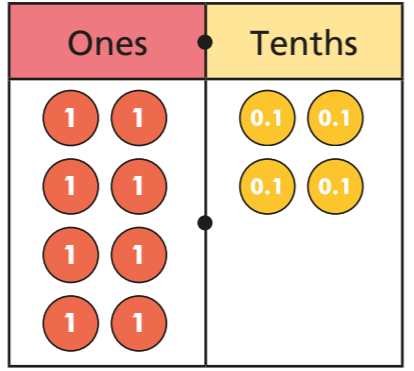


# Divide decimals by integers

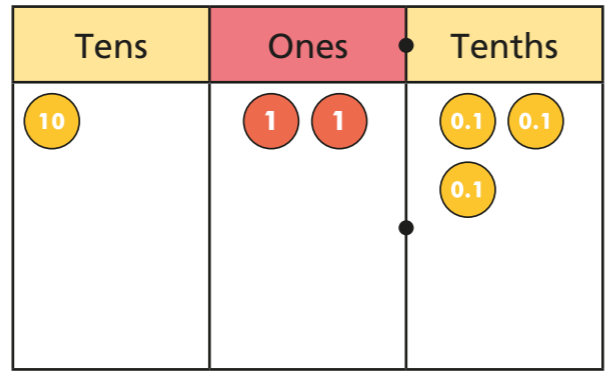


1 Use place value counters to work out the divisions.

a)  $8.4 \div 4 = \square$

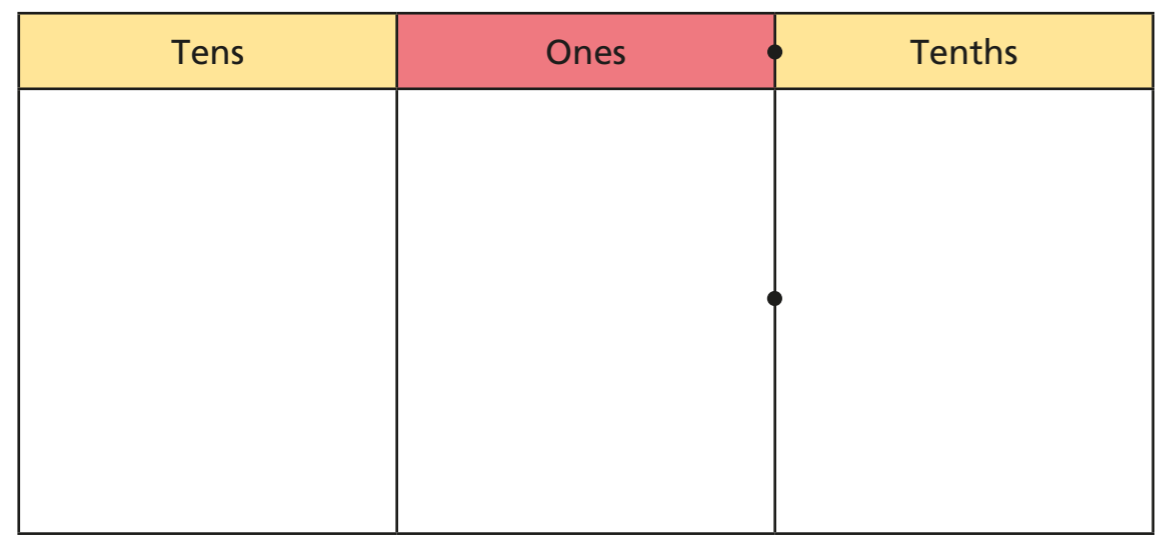


b)  $12.3 \div 3 = \square$

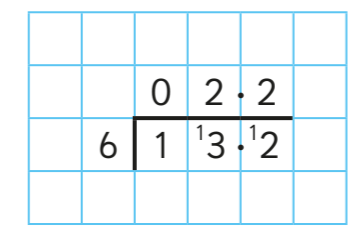


2 Work out the division. Draw your answer.

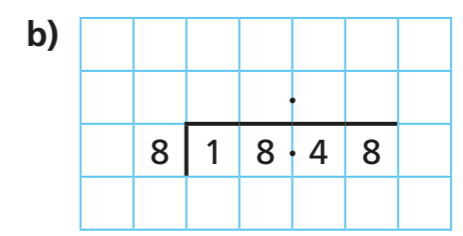
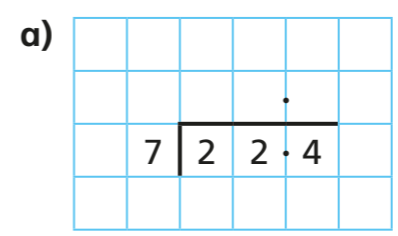
$16.4 \div 4 = \square$



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



Use short division to work out the calculations.



4 Work out the divisions.

a)  $25.6 \div 8 = \square$

d)  $\square = 19.45 \div 5$

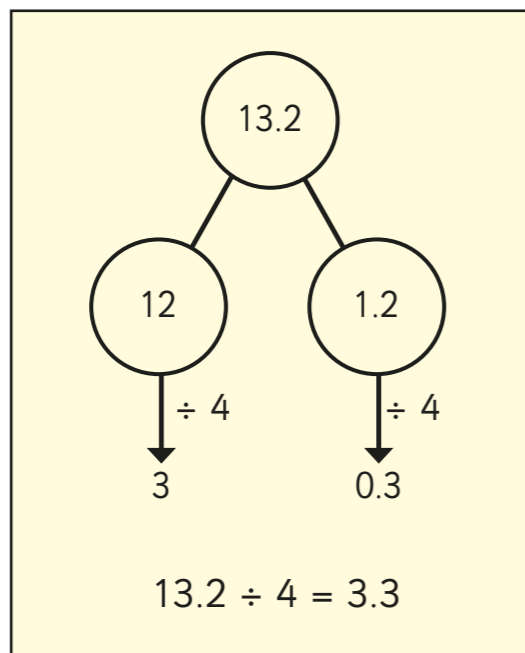
b)  $14.8 \div 4 = \square$

e)  $202.35 \div 3 = \square$

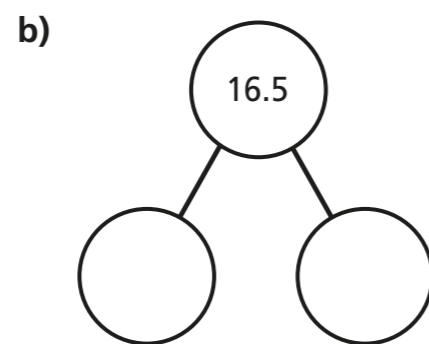
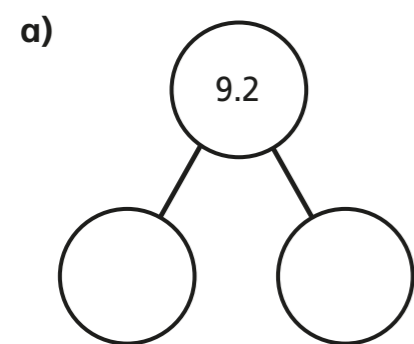
c)  $18.48 \div 6 = \square$

f)  $105.12 \div 9 = \square$

- 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.



$$9.2 \div 4 = \square$$

$$16.5 \div 3 = \square$$

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

- 6 Work out the divisions.

a)  $9.64 \div 4 = \square$

$$96.4 \div 4 = \square$$

$$0.964 \div 4 = \square$$

$$9.64 \div 8 = \square$$

b)  $19.44 \div 9 = \square$

$$19.53 \div 9 = \square$$

$$19.62 \div 9 = \square$$

- 7 Fill in the missing numbers.

$$3.6 \div 4 = 36 \div \square$$

$$3.6 \div 4 = \square \div 8$$

- 8 Complete the calculation.

$$8.4 \div \square = 4.2 \div \square$$

How many different solutions can you find?

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

