

Hello y6 Wed.

Today you will move onto **dividing** decimals by whole numbers

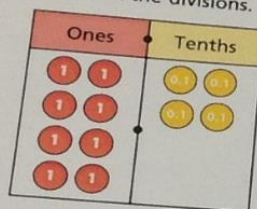
Go to white rose y6 wk 5 lesson 3 to watch the video first

Divide decimals by integers

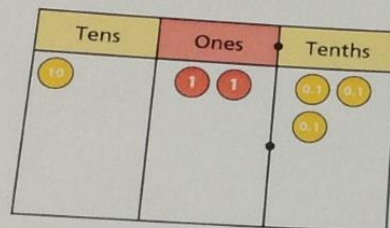
White
Rose
Maths

- 1 Use place value counters to work out the divisions.

a) $8.4 \div 4 =$

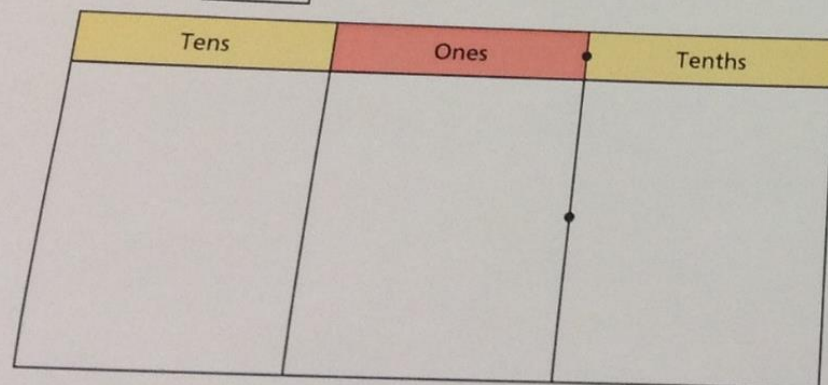


b) $12.3 \div 3 =$

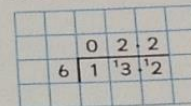


- 2 Work out the division. Draw your answer.

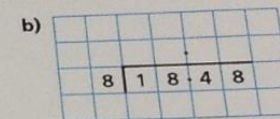
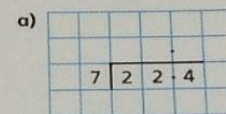
$16.4 \div 4 =$



- 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) $25.6 \div 8 =$

d) $= 19.45 \div 5$

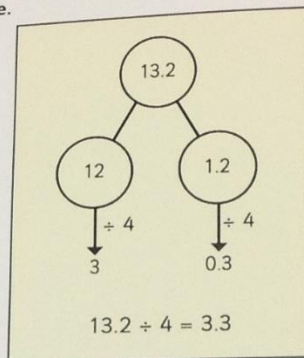
b) $14.8 \div 4 =$

e) $202.35 \div 3 =$

c) $18.48 \div 6 =$

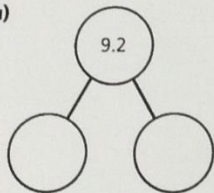
f) $105.12 \div 9 =$

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

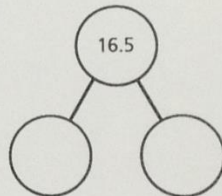


Use Esther's method to complete the part-whole model and calculation.

a)



b)



$$9.2 \div 4 = \boxed{}$$

$$16.5 \div 3 = \boxed{}$$

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

scroll down for answers

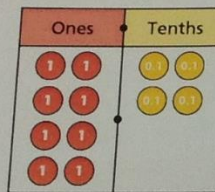
Y6 wk-5 L3



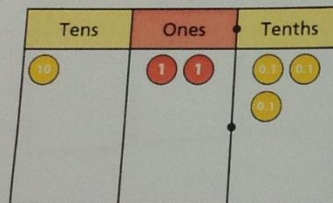
Divide decimals by integers

- 1 Use place value counters to work out the divisions.

a) $8.4 \div 4 =$ 2.1

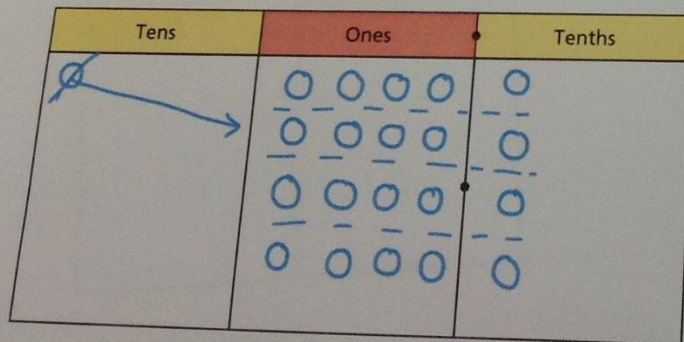


b) $12.3 \div 3 =$ 4.1

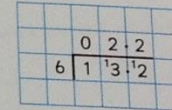


- 2 Work out the division. Draw your answer.

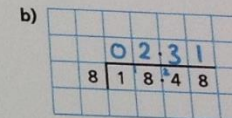
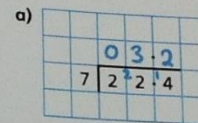
$16.4 \div 4 =$ 4.1



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



Use short division to work out the calculations.



- 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

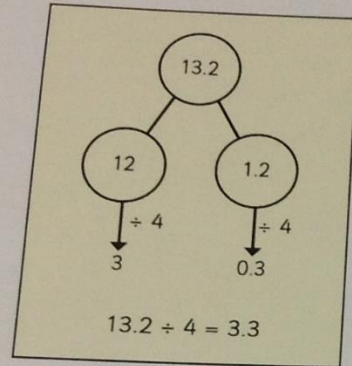
e) $202.35 \div 3 =$ 67.45

c) $18.48 \div 6 =$ 3.08

f) $105.12 \div 9 =$ 11.68

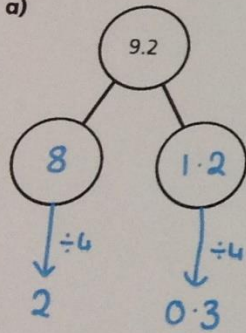
Y6 wk

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



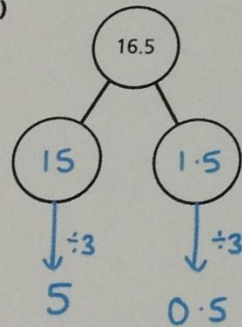
Use Esther's method to complete the part-whole model and calculation.

a)



$$9.2 \div 4 = \boxed{2.3}$$

b)



$$16.5 \div 3 = \boxed{5.5}$$

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

