

RECALL

$$342 \div 3 =$$

$$504 \div 8 =$$

$$1344 \div 7 =$$

$$351 \div 13 =$$

$$1632 \div 17 =$$

$$4896 \div 36 =$$

L.O. - TO DIVIDE DECIMALS BY INTEGERS

- **Some will** even be able to create a hypothesis about dividing decimals
- **Some will** be able predict answers using their knowledge of division
- **Most will** be able to use long division to divide decimals
- **All will** be able to use a diagrams to divide decimals

GUIDED PRACTICE – MY TURN



1) Four small blocks balance a 0.8 kg box.

What is the mass of each small block?

2) How many blocks will balance an 8 kg crate?

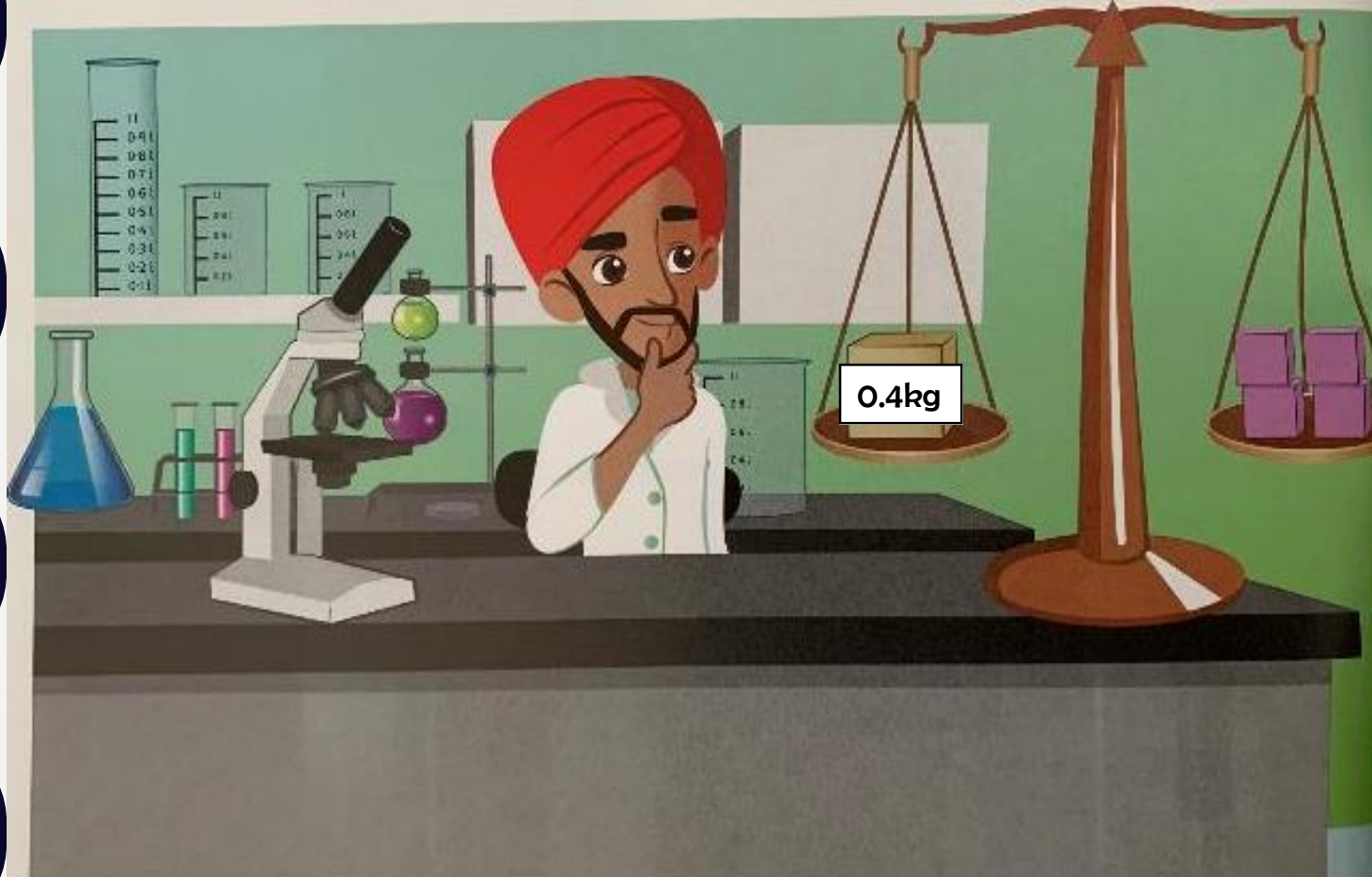
help

Use a bar model or place value chart to help you.



What else can you calculate with the knowledge you have?

GUIDED PRACTICE – YOUR TURN



1) Four small blocks balance a 0.4 kg box.

What is the mass of each small block?

2) How many blocks will balance an 8 kg crate?

help

Use a bar model or place value chart to help you.



What else can you calculate with the knowledge you have?



1) $42 \div 3 =$

2) $4.2 \div 3 =$

3) $0.42 \div 3 =$

What do you notice?



1) $9.64 \div 4 =$

2) $96.4 \div 4 =$

3) $0.964 \div 4 =$

What do you notice?



1) $19.44 \div 9 =$

2) $19.53 \div 9 =$

3) $19.62 \div 9 =$

What do you notice?



$145.255 \div 5 =$

Explain how you know it divides equally with no recurring.

Intelligent Practice



1) $42 \div 3 = 14$

2) $4.2 \div 3 = 1.4$

3) $0.42 \div 3 = 0.14$

What do you notice?



1) $9.64 \div 4 = 2.41$

2) $96.4 \div 4 = 24.1$

3) $0.964 \div 4 = 0.241$

What do you notice?



1) $19.44 \div 9 = 2.16$

2) $19.53 \div 9 = 2.17$

3) $19.62 \div 9 = 2.18$

What do you notice?



$145.255 \div 5 = 29.051$

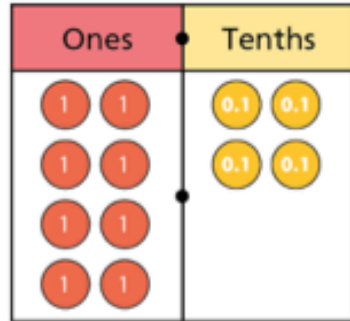


DIVE DEEPER 1

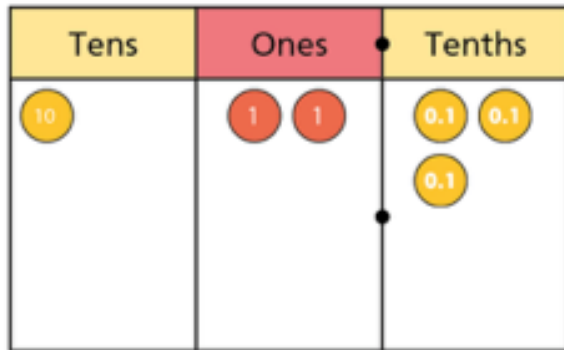
1)

Use place value counters to solve the calculations shown.

$$8.4 \div 4 =$$



$$12.3 \div 3 =$$



2)

Fill in the missing numbers.

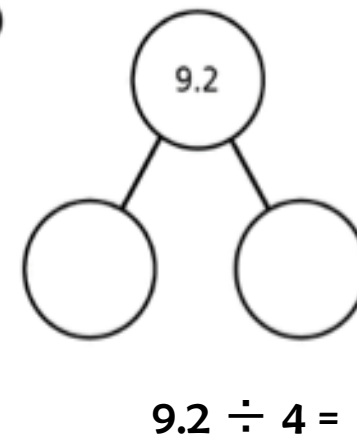
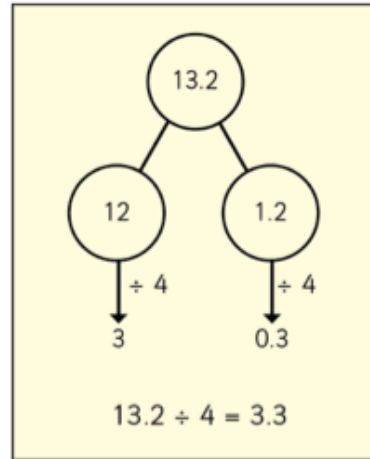
$$3.6 \div 4 = 36 \div \square$$

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

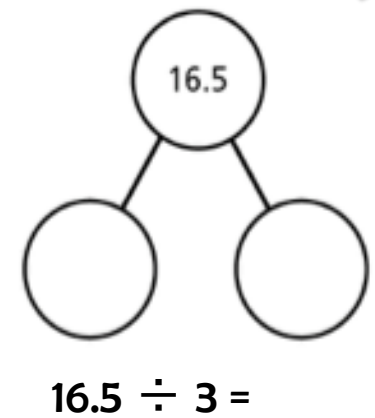
Use Esther's method to complete the part-whole model and calculation.

3)

a)



b)



Predict whether the answers to these divisions will have one or two decimal places.

4)

a) $0.8 \div 5 =$

b) $85.8 \div 5 =$

c) $8.05 \div 5 =$

d) $508.5 \div 5 =$

Complete each calculation to check.



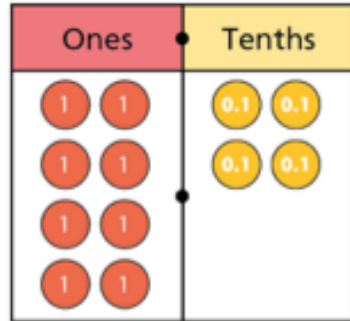
DIVE DEEPER 1



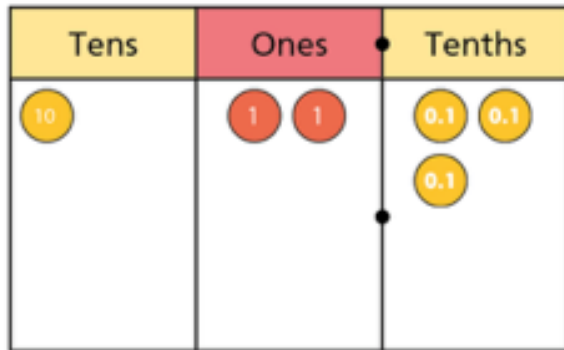
1)

Use place value counters to solve the calculations shown.

$$8.4 \div 4 = 2.1$$



$$12.3 \div 3 = 4.1$$



2)

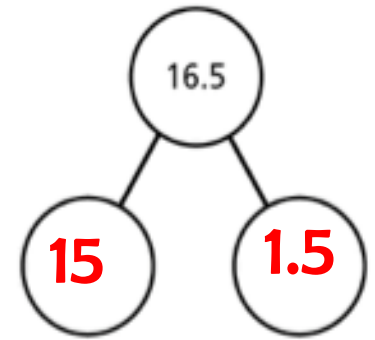
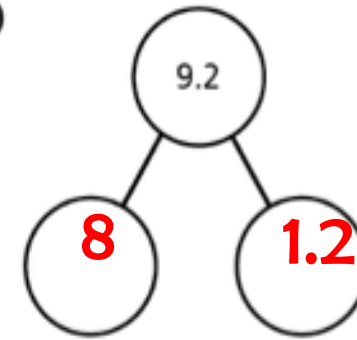
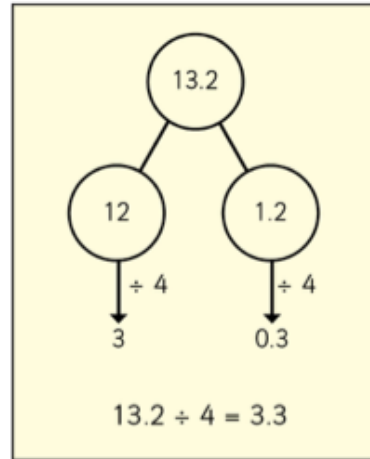
Fill in the missing numbers.

$$3.6 \div 4 = 36 \div 40$$

$$3.6 \div 4 = 7.2 \div 8$$

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

3)



Predict whether the answers to these divisions will have one or two decimal places.

4)

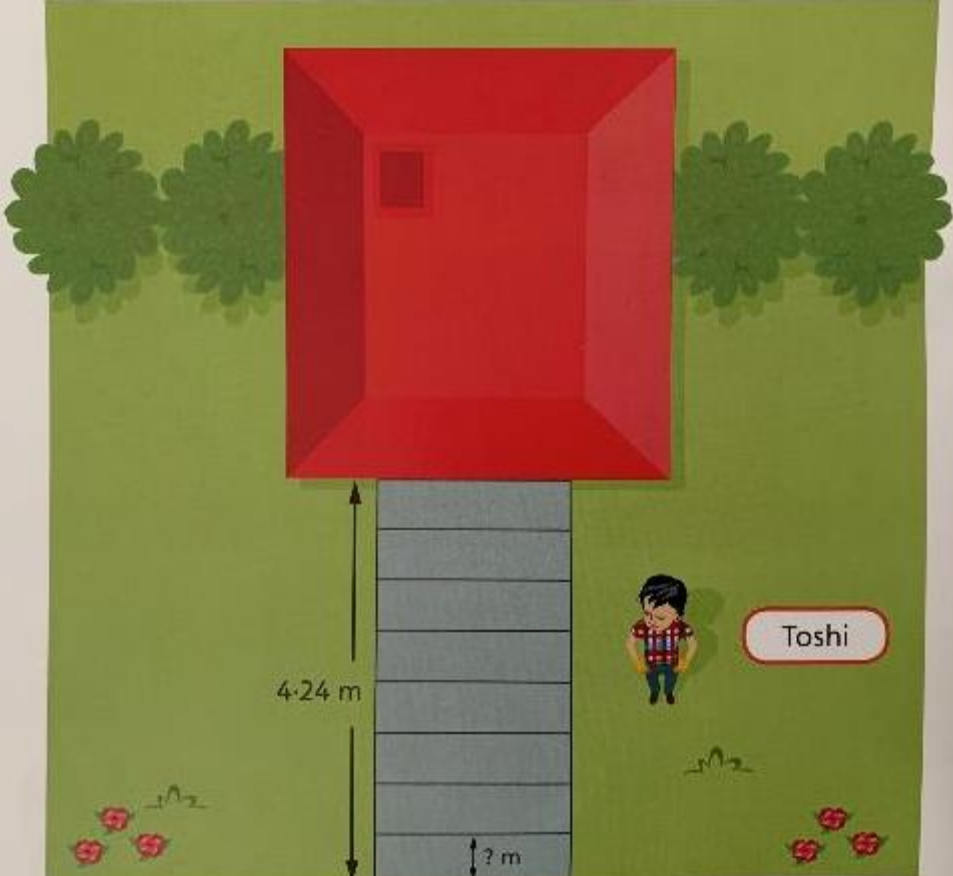
a) $0.8 \div 5 = 0.16$

b) $85.8 \div 5 = 17.16$

c) $8.05 \div 5 = 1.61$

d) $508.5 \div 5 = 101.7$

Complete each calculation to check.



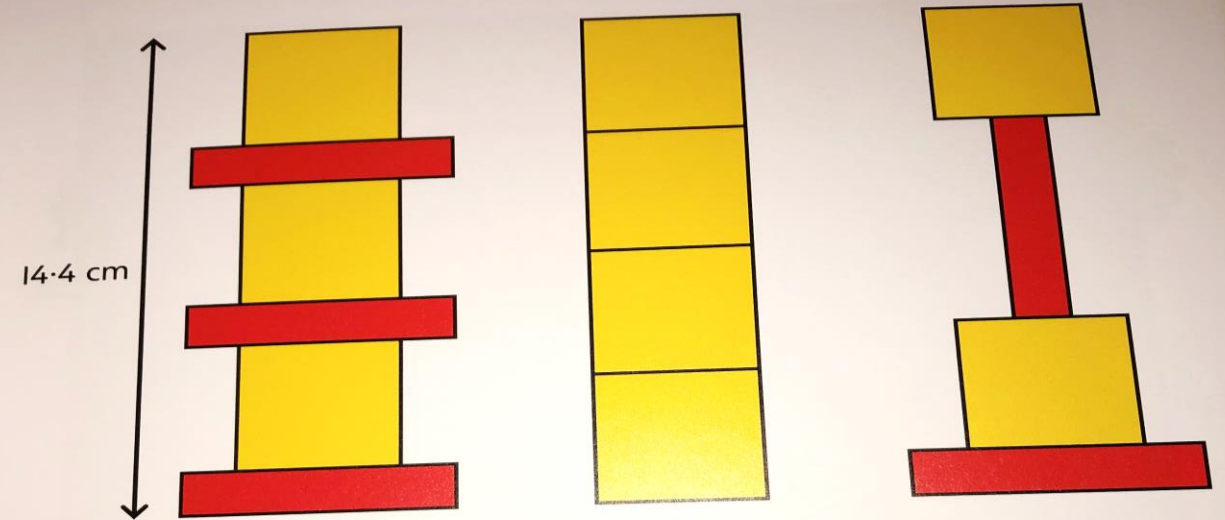
- 1) Calculate the height of one paving slab
- 2) How many slabs would Toshi need to make a path that is at least 10 m long
 - What patterns do you notice?
 - Can you write a rule?
 - Can you express your rule algebraically?



DIVE DEEPER 2



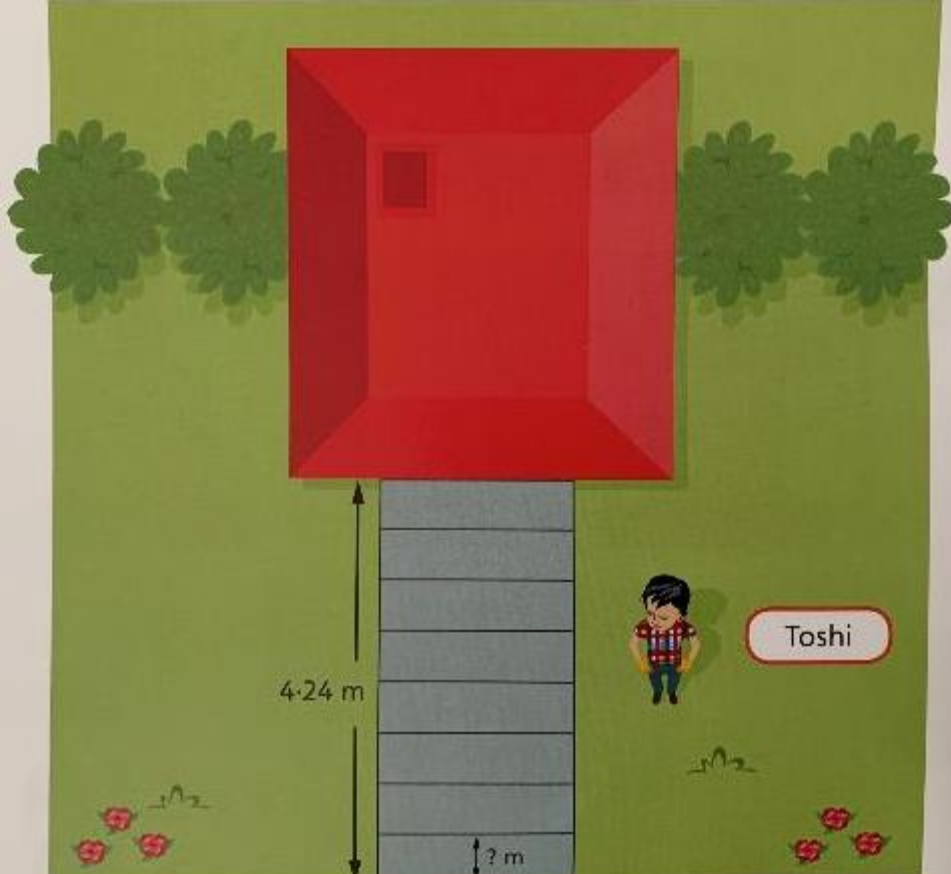
- 3 All three of these towers are 14.4 cm tall.
What is the height and width of one red block?



I can see an easy way to find the height of one yellow block.

A red block is wide and long.





1) Calculate the width of one paving slab.

0.53 m

1) How many slabs would Toshi need to make a path that is at least 10 m long

19+ slabs

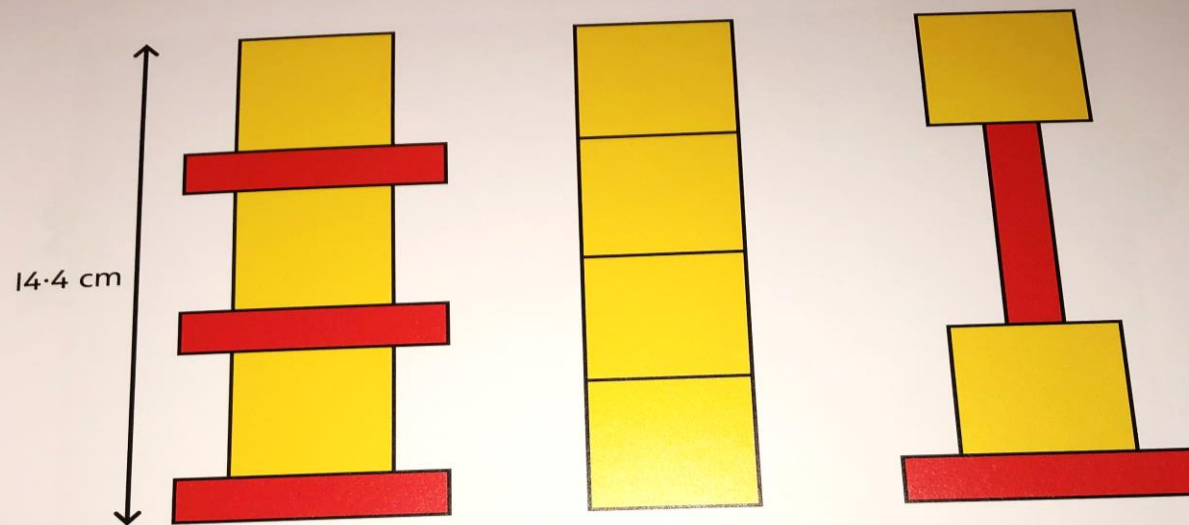
- What patterns do you notice?
- Can you write a rule?
- Can you express your rule algebraically?



DIVE DEEPER 2



- 3 All three of these towers are 14.4 cm tall.
What is the height and width of one red block?



I can see an easy way to find the height of one yellow block.

yellow = 3.6m

Red = 1.2m x 6m

A red block is wide and long.

