RECALL

$$342 \div 3 =$$
 $351 \div 13 =$
 $504 \div 8 =$
 $1632 \div 17 =$
 $1344 \div 7 =$
 $4896 \div 36 =$



LEARNING HABITS?



GUIDED PRACTICE

- 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?





How many different ways can you represent this calculation?

INTELLIGENT PRACTICE



Complete these calculations	Complete these calculations	Complete these calculations
1) 4.2 ÷ 2 =	1) 9.64 ÷ 4 =	1) 19.44 ÷ 9 =
2) 6.6 ÷ 2 =	2) 96.4 ÷ 4 =	2) 19.53 ÷ 9 =
3) 12.8 ÷ 2 =	3) 0.964 ÷ 4 =	3) 19.62 ÷ 9 =
4) 22.4 ÷ 2 =	4) 9.64 ÷ 8 =	4) 19.71 ÷ 9 =
What do you notice?	What do you notice?	What do you notice?

INTELLIGENT PRACTICE ANSWERS

Complete these calculations	Complete these calculations	Complete these calculations
1) 4.2 ÷ 2 = 2.1	1) 9.64 ÷ 4 = 2.41	1) 19.44 ÷ 9 = 2.16
2) 6.6 ÷ 2 = 3.3	2) 96.4 ÷ 4 = 24.1	1) 19.53 ÷ 9 = 2.17
3) 12.8 ÷ 2 = 6.4	3) 0.964 ÷ 4 = 0.241	2) 19.62 ÷ 9 = 2.18
4) 22.4 ÷ 2 = 11.2	4) 9.64 ÷ 8 = 1.205	3) 19.71 ÷ 9 = 2.19
What do you notice?	What do you notice?	What do you notice?

DIVE DEEPER 1

DIVE DEEPER 1 ANSWERS

DIVE DEEPER 2

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

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.

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

6) Fill in the missing numbers.

3.6 ÷ 4 = 36 ÷ ____

3.6 ÷ 4 = ___ ÷ 8

DIVE DEEPER 2 ANSWERS

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

a) $0.8 \div 5 = 0.16$ b) $85.8 \div 5 = 17.16$ c) $8.05 \div 5 = 1.61$ d) $508.5 \div 5 = 101.7$

Explain how you can predict the amount of decimal places

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

6) Fill in the missing numbers.

 $3.6 \div 4 = 36 \div 40$

3.6 ÷ 4 = 7.2 ÷ 8

Can you explain why this works?

Can you find other examples or even create a rule?

DIVE DEEPER 3

- Calculate the width of one paving slab
- 2) How many slabs would Toshi need to make a path that is at least 10 m long

Complete the calculation.

8.4 ÷ ____ = 4.2 ÷ ____

How many different solutions can you find?

What patterns do you notice?

Can you write a rule?

Can you express your rule algebraically?

SELF-ASSESSMENT

- Some will even be able to create suppositions 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

