Week beginning 5-10-20

Maths

This week we are looking at division.

Please complete the lessons on the following link:

https://whiterosemaths.com/homelearning/year-6/week-5/

Task A

1.)

Please complete the following

725 ÷ 5 =

1938 ÷ 3 =

6036 ÷ 12 =

3612 ÷ 7 =

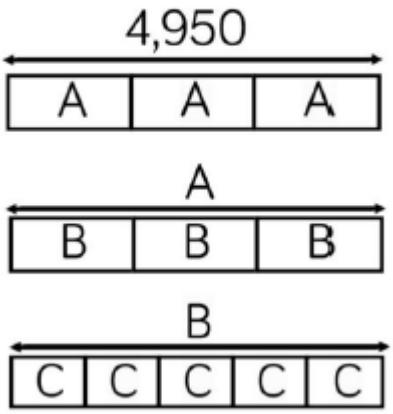
2.)

Use <, > or = to make the statements correct.

3,495 ÷ 5	◯	3,495 ÷ 3
8,064 ÷ 7	◯	9,198 ÷ 7
7,428 ÷ 4	◯	5,685 ÷ 5

3.)

Work out the value of C.
(The bar models are not drawn to scale)



Task B

1.) Please complete division rules task

https://nrich.maths.org/10490

2.)

I am thinking of a 3-digit number.

When it is divided by 9, the remainder is 3

When it is divided by 2, the remainder is 1

When it is divided by 5, the remainder is 4

What is my number?

Task C

1.)

Explain the mistakes

$564 \div 3$

Mistake 1

$$3\overline{)564}\quad 121$$

Mistake 2

$$3\overline{)5^{2}6^{1}4}\quad 194 \text{ r } 2$$

Mistake 3

$$3\overline{)5^{2}6^{2}4}\quad 187$$

2.)

How many ways?

Complete using digits 0-9. Position the digits 1, 2 and 4 as shown.

$$\square\square \div 4 = \square\frac{1}{2}$$

Level 1: I can find a way

Level 2: I can find different ways

Level 3: I know how many ways there are

Task D

1.)

1) Use factor pairs to help you fill in the empty boxes.

a) 960 ÷ 30 = 960 ÷ 10 ÷ 3 960 ÷ 30 = ☐

b) 240 ÷ 60 = 240 ÷ ☐ ÷ 6 240 ÷ 60 = ☐

c) 90 ÷ 6 = 90 ÷ 3 ÷ ☐ 90 ÷ 6 = ☐

d) 375 ÷ 15 = 375 ÷ 5 ÷ ☐ 375 ÷ 15 = ☐

e) 288 ÷ 18 = 288 ÷ 9 ÷ ☐ 288 ÷ 18 = ☐

2) Use factors to help you calculate the following:

a) 512 ÷ 16 =

b) 336 ÷ 12 =

c) 945 ÷ 21 =

d) 1350 ÷ 45 =

2.)

How many ways?

60 ÷ ____ = 12 ÷ ____

Complete using positive whole numbers.

Level 1: I can find a way

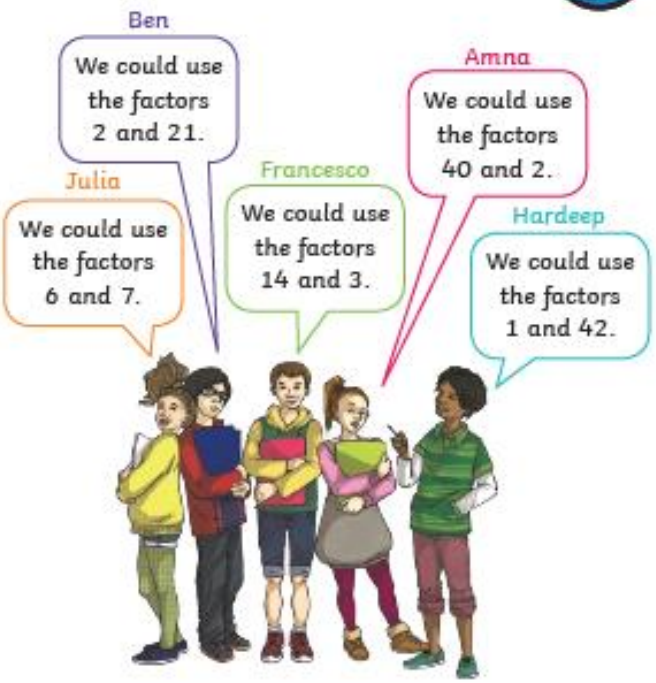
Level 2: I can find different ways

Level 3: I know how many ways there are

Task E

1.)

1) A class of children are asked to solve this calculation: 1848 ÷ 42



Who is incorrect? How do you know?

Explain why one method would not be efficient even though it would give the correct answer.

Calculate the answer using your chosen factor pairs.

2.)

Calculate:

- 1,248 ÷ 48
- 1,248 ÷ 24
- 1,248 ÷ 12

What did you do each time? What was your strategy?
What do you notice? Why?

3.)

Class 6 are calculating 7,848 ÷ 24

The children decide which factor pairs to use. Here are some of their suggestions:

- 2 and 12
- 1 and 24
- 4 and 6
- 10 and 14

Which will not give them the correct answer? Why?

Use the correct factor pairs to calculate the answer.
Is the answer the same each time?

Which factor pair would be the least efficient to use? Why?