Week beginning 12.10.20

Maths

This week we are looking at division and factors.

Please complete the lessons on the following link

https://whiterosemaths.com/homelearning/year-6/week-6-number-addition-subtraction-multiplication-division/

Complete only the lesson about factors (lesson 4)

Task A

1) Calculate the following expressing the remainder as a whole number and fraction.

2,637 ÷ 16 =

1,426 ÷ 13 =

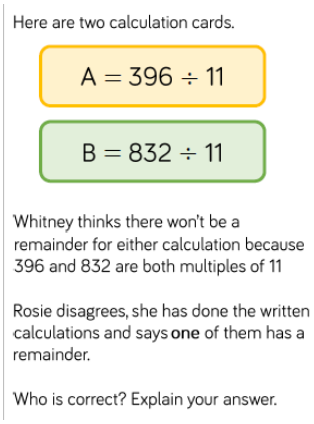
4,453 ÷ 22 =

4,203 ÷ 18 =

2)

Which numbers up to 20 can 4,236 be divided by without having a remainder?
What do you notice about all the numbers

3)



Task B

1)

Form of answer

$$6\overline{)82} \quad 13 \text{ r } 4$$

Question	Answer
Eggs are packed in boxes of 6. The farmer has 82 eggs. How many boxes does he need?	14 boxes
A sunflower grows to a height of 82cm in 6 weeks. On average, how many centimetres does it grow each week?	
82 children turn up for a 6-a-side football tournament. How many teams can be made? Teams can have substitutes.	
An artist works on a masterpiece for 82 hours over 6 days. On average, how long does she work each day?	

2) Answer the following questions:

a) A cat rescue centre uses 21 cans of cat food every day. They receive a donation of 2,478 cans of cat food. How many days will the cat food last for?

b) A ranger at a wildlife reserve needs 475kg of bird seed to make feeders. The seed comes in bags of 35kg. How many bags will the ranger need to buy?

c) Amelia has 2,000ml of juice. She fills each ice-lolly mould with 75ml of juice. How many ice lollies can she make, and how much juice will be left?

d) Bela has 2,500ml of juice and she uses 95ml of the juice for each ice lolly. Will she have more or less juice left than Amelia?

e) What fraction of an ice lolly can Amelia and Bella each make with their remaining juice?

3) Write a story problem with a remainder of 10.

Task C

1)

Here is Annie's method for finding factor pairs of 36

1	36
2	18
3	12
4	9
5	X
6	6

When do you put a cross next to a number?

How many factors does 36 have?

Use Annie's method to find all the factors of 64

2)

List the factors of these numbers:

1. 16
2. 21
3. 24
4. 48
5. 64

List the factors of these numbers:

6. 7
7. 11
8. 23
9. 13
10. 5

What do you notice about these numbers?

_____

These numbers are called prime numbers.

Can you find three more prime numbers? _____, _____, _____

3)

True or false?

The bigger the number the more factors it has.

Convince me