Maths- division (Friday)

Star questions

1). Share the 12 cubes equally into the two boxes.

There are ___ cubes altogether.
There are ___ boxes.
There are ___ cubes in each box.

Can you share the 12 cubes equally into 3 boxes?

2). You have 12 sweets. 

How many sweets will each child have if you share them equally between 2 children_____

3). You have 8 bananas. 

How many bananas will each child have if you share them equally between 2 children _____

4). You have 20 cherries 

How many cherries will each child have if you share it equally between

2 children _____ 5 children _____ 10 children_____

Bronze questions

Complete the following division questions-

1). a. 17 ÷ 5

b. 23 ÷ 5

c. 22 ÷ 3

d. 31 ÷ 2

Jack has 15 stickers.

He sorts his stickers into equal groups but has some stickers remaining.
How many stickers could be in each group and how many stickers would be remaining?

Silver questions

1). a. 86 ÷ 4

b. 87 ÷ 4

c. 97 ÷ 3

d. 98 ÷ 3

e. 58 ÷ 3

f. 63 ÷ 4

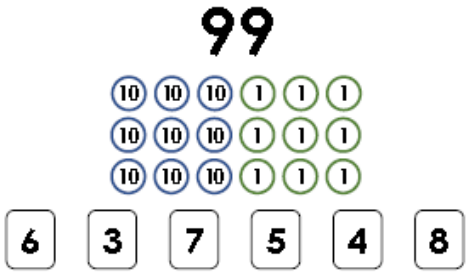
2). 37 sweets are shared between 4 friends.
How many sweets are left over?

Four children attempt to solve this problem.

- Alex says it's 1
- Mo says it's 9
- Eva says it's 9 r 1
- Jack says it's 8 r 5

Can you explain who is correct and the mistakes other people have made?

3). Divide the following number by the number on the digit cards:



Which calculations give a remainder?

Gold questions

1). a). 96 ÷ 4
b). 87 ÷ 3
c). 59 ÷ 6
d). 78 ÷ 9
e). 67 ÷ 7

2). Whitney is thinking of a 2-digit number that is less than 50

When it is divided by 2, there is no remainder.

When it is divided by 3, there is a remainder of 1

When it is divided by 5, there is a remainder of 3

What number is Whitney thinking of?

Star answers

1. There are 12 cubes altogether.
   There are 2 boxes.
   There are 6 cubes in each box.

   12 ÷ 3 = 4

2. 12 ÷ 2 = 6
3. 8 ÷ 2 = 4
4. 20 ÷ 2 = 10
   20 ÷ 5 = 4
   20 ÷ 10 = 2

Bronze answers

3 r2
4 r3
7 r1
15 r 1

There are many solutions, encourage a systematic approach.
e.g. 2 groups of 7, remainder 1
3 groups of 4, remainder 3
2 groups of 6, remainder 3

Silver answers

1. 21 r 2
2. 21 r 3
3. 32 r1
4. 32 r2
5. 19 r 1
6. 15 r 3

Alex is correct as there will be one remaining sweet.
Mo has found how many sweets each friend will receive.
Eva has written the answer to the calculation.
Jack has found a remainder that is larger than the divisor so is incorrect.

Gold answers

1. 24
2. 29
3. 9r5
4. 8r6
5. 9r4

Answer- Whitney is thinking of 28.