23.2.21

Arithmetic

1. 3,492 - 583
2. 1,498 - 1,339
3. 324 - 89
4. 5,792 - 4,889
5. 9,000 - 2,432
6. 932 - 675

FB4

Flashback 4 — Year 6 | Week 6 | Day 4

1) Solve the equation $5x + 3 = 38$

2) What might the rule be for this function machine? 50 → ? → 10

3) Work out 19.64 ÷ 4

4) What number is 6 less than 2?

Problems of the Day

Problems of the Day 2020 — Day 17

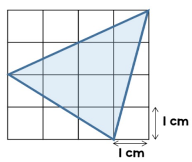
1. Jack and Dora each have some money.

"I spent $\frac{1}{3}$ of my money."

"I spent $\frac{1}{4}$ of my money."

They have the same amount left.
Dora spent £72
How much money did Jack spend?

2. What is the area of the triangle?



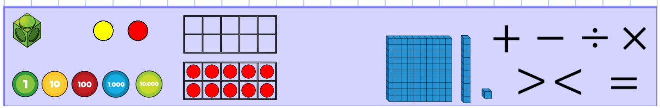
3. Write down all the common multiples of 4 and 6 that are less than 50
Show or explain your method.

Equations

b + a = 10

Can a and b be worth the same?

Can a or b be a zero?



Equations

$$b + a = 10$$

Can a and b be worth the same? **Yes**

Can a or b be a zero? **Yes**

Equations

$$b + a = 10$$

How many possible integer answers are there?

We can use trial and error, but we can also work systematically

Equations

How many possible integer answers are there? $b + a = 10$

Working systematically

If $b=1$, then $a = 9$
$b=2$, then $a = 8$
$b=3$, then $a = 7$

and so on

Equations

How many possible integer answers are there? $e \times f = 15$

For this type of question we need to think of pairs of factors which equal 15

3 and 5
1 and 15

We can then switch around the values (e.g. e could be 3 and f 5, or e could be 5 and f could be 3).

Equations

$$2b + a = 10$$

Sometimes we can have equations with multiples of one or more unknown variables.

Two lots of b add a is equal to 10.

Equations

$$2b + a = 10$$

Two lots of b add a is equal to 10.

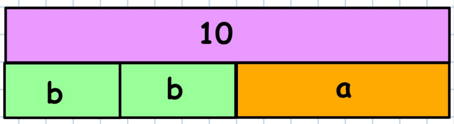
If b is 1(2 lots of 1 is 2), then a = 8
b is 2(2 lots of 2 is 4), then a = 6

and there are other possible values.

Equations

$$2b + a = 10$$

We could represent this as a bar model



Equations

$$2b + 3 = c$$

In this example, c could be anything (it is dependent on the value of b).

If b is worth 3 (there are other possibilities), then we substitute it in the equation to get:

$(2 \times 3) + 3 = c$

$6 + 3 = c$

$9 = c$ or $c = 9$

23.2.21

Find pairs of values

Vocabulary

- algebra
- function
- input
- output
- one-step
- two-step
- expression
- algebraic input
- formulae
- variable

23.2.21

Find pairs of values

Today we are learning to find solutions to equations with more than one possible value.

I will be successful if:

- I recognise that 2a = 2 lots of a.
- I work systematically.
- I use previous trial and error attempts to help to identify possible solutions.

23.2.21

Plenary