

RISE UP



WEEK 2 MATHS CHALLENGE KS2

ARTICLE 2 - The Convention applies to everyone: whatever their race, religion or abilities, whatever they think or say, whatever type of family they come from.

What you need:

- Cuisenaire Rods
- Paper
- Pencil

How to lead this activity

- Let the children use trial and error to solve the problem – this will have been modelled in the main teaching session.
- When the children complete an equation they place a counter on the game board..

Extension































- Children design their own equation to be solved.



Rocket

Collect 3 rocket fuels to launch



Master Cards

Solve using the bar model

$$3d - 5 = 16$$

Solve using the bar model

$$2b - 7 = 11$$

Solve using the bar model

$$7e - 8 = 13$$

Solve using the bar model

$$3f - 7 = 11$$

Solve using the bar model

$$3a - 5 = 13$$

Solve using the bar model

$$5c - 9 = 16$$

Solve using the bar model

$$4g - 8 = 2$$

Solve using the bar model

$$5x - 11 = 4$$

Solve using the bar model

$$8a - 15 = 7$$

Solve using the bar model

$$20 - 2b = 10$$

Solve using the bar model

$$2a - 3 = 13$$

Solve using the bar model

$$4c - 3 = 23$$

CHALLENGE 1

96 packets of rocket food were on sale for the astronauts.

Jessica bought 36 packets.

Jason and Denny bought the same amount each.

There were none left over.

How many packets did each astronaut have?

CHALLENGE 2

42 rocket stamps are sold between 3 different people. Each person buys a different amount of stamps.

Maya buys the least amount

Ali buys twice as many as Maya

Sam buys four times more than Maya

How many stamps does each person buy?

Solutions for challenge Qs

Challenge 1

The total sales was 96. So draw a bar and label it with 96.

Jessica is identified first as she purchased 36 packets. Mark a bar for Jessica

96 – Jessica =

96 – 36 = 60

Jason and Denny bought the same amount each.

60 / 2 = 30

Who buys what?

Jessica: 36

Jason: 30

Denny: 30

Total = 96 packets

Challenge 2

The total sales was 42. So draw a bar and label it with 42.

Maya is identified first as she sold the fewest stamps. As we do not know how much Maya sold, we let her sales equal 1 section.

Ali sold double Maya so his sales are equal to 2 sections.

Sam sold four times as many as Maya so his sales are equal to 4 sections.

In total there are 7 sections. 1 for Maya, 2 for Ali and 4 for Sam.

Each section is equal. Therefore 1 section equals $42 \div 7 = 6$.

Who buys what?

Maya: 6

Ali: 12

Sam: 24

Total = 42 stamps