Dear Parents/Carers,
This powerpoint takes the children through the learning sequence. If possible please talk through the slides with your child and check their understanding. The slides start at a basic level to re-cap previous learning.

Mass, Capacity and Temperature

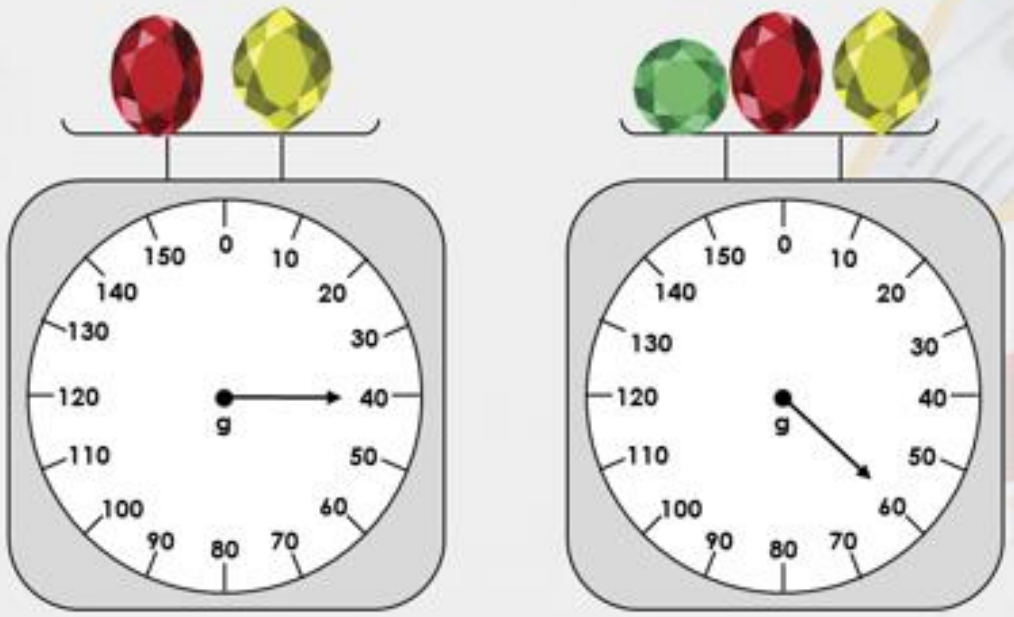
7.5.20

7.5.20

LO: I can add and subtract mass.

Starter

One yellow jewel weighs 10g.
How much does each red and green jewel weigh?



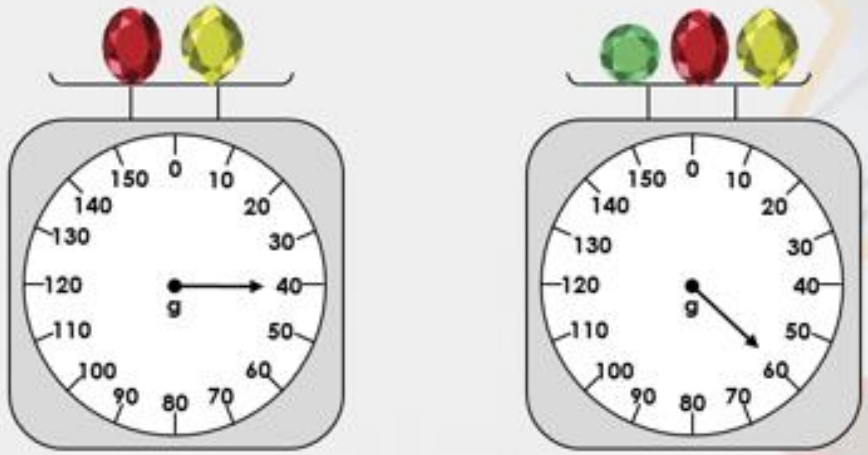
How much would two of each jewel weigh in total?

Work out the mass of the red jewel first.
40 – 10 =

Next, work out the mass of the green jewel.

Starter - answer

One yellow jewel weighs 10g.
How much does each red and green jewel weigh?

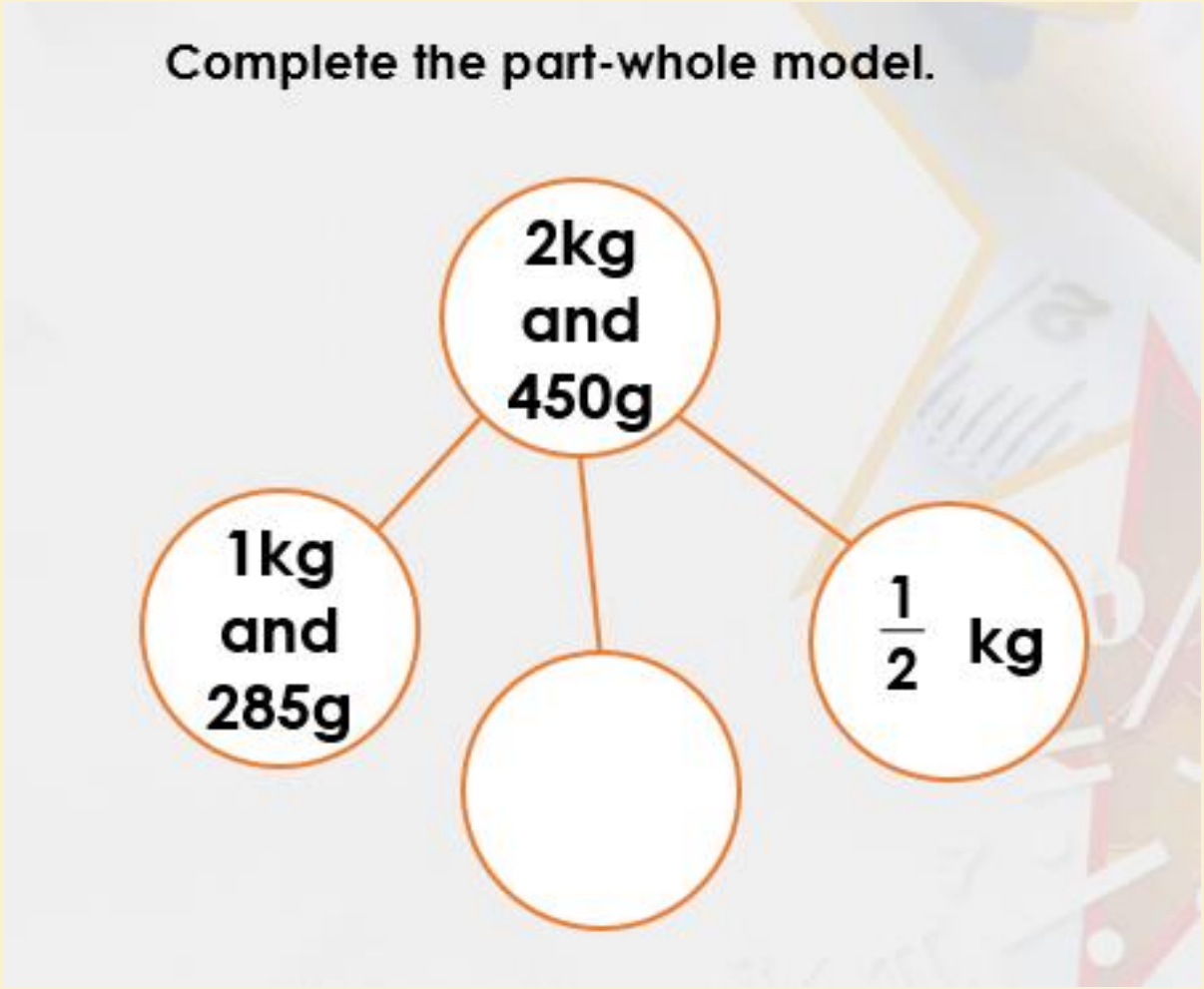


40g – 10g = 30g. The red jewel weighs 30g.
60g – 30g – 10g = 20g. The green jewel weighs 20g.

How much would two of each jewel weigh in total?

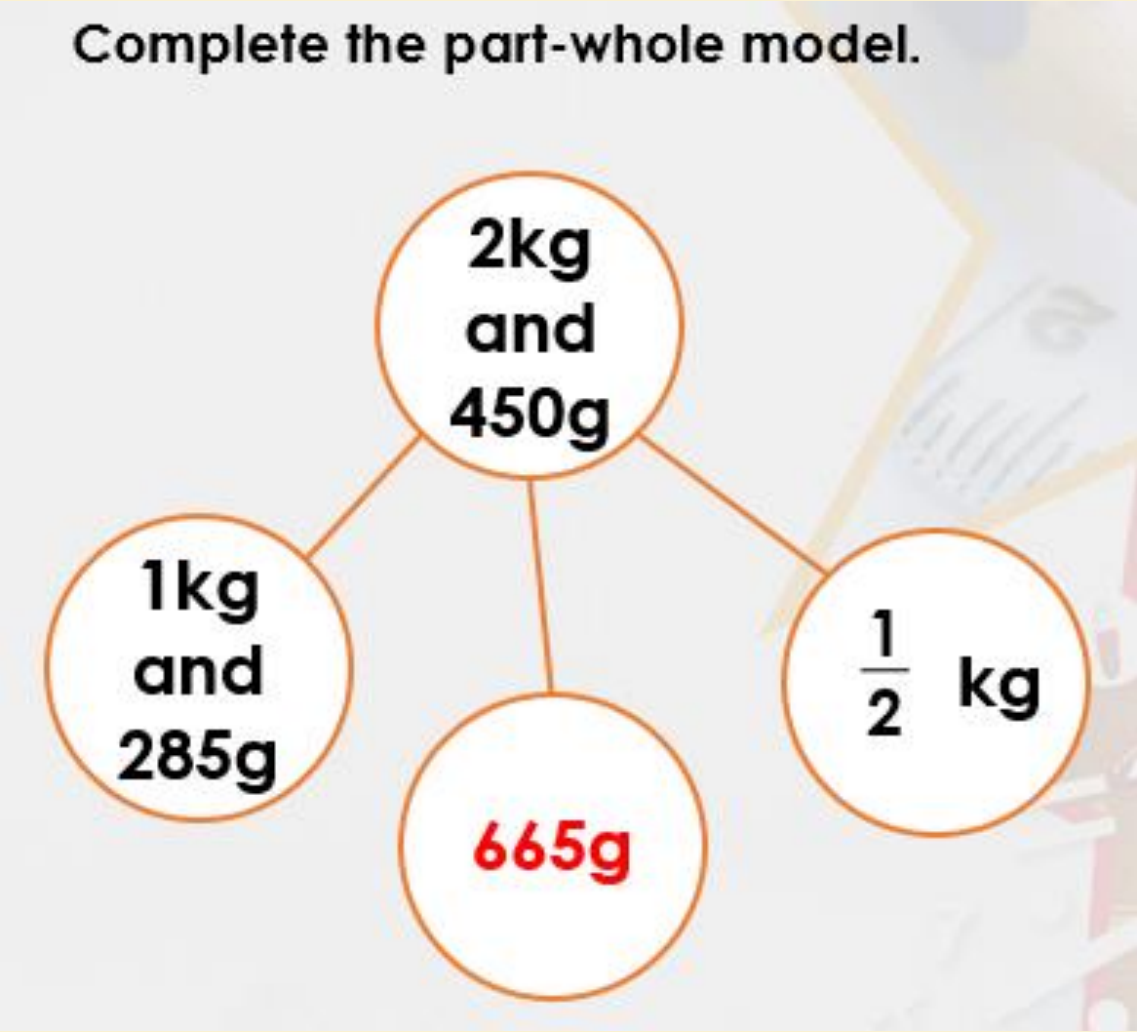
10g + 10g + 20g + 20g + 30g + 30g = 120g

Descriptive Teaching



1/2 kg = 500g.
So, 1kg + 285g + 500g =?

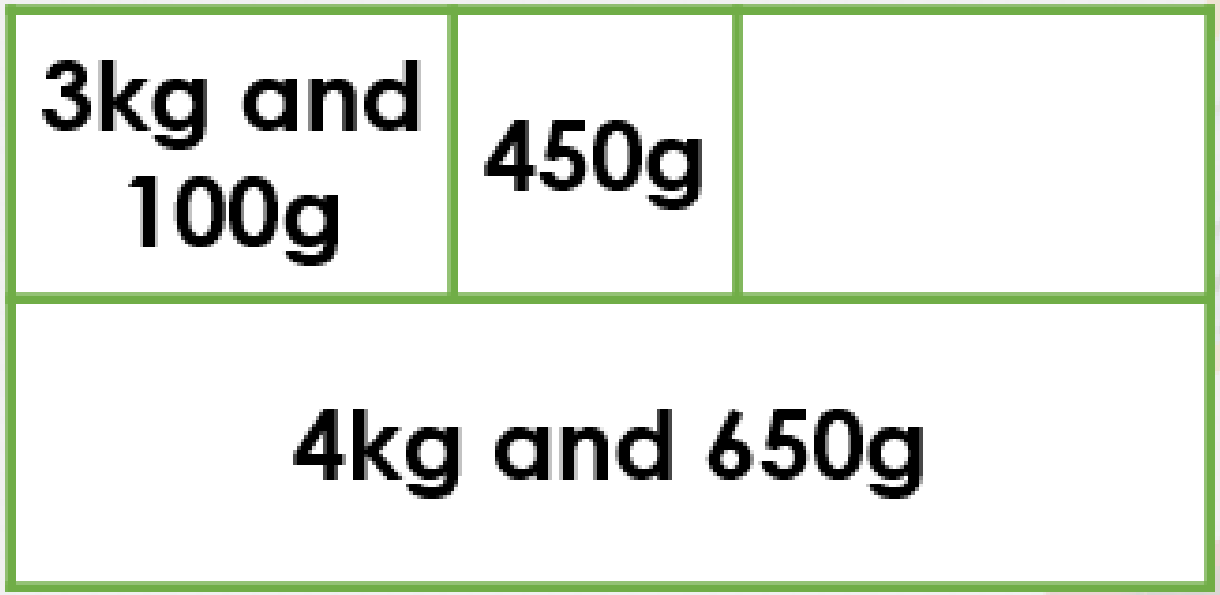
Descriptive Teaching - Answer



The 3 parts add together to equal 2kg and 450g.

Descriptive Doing

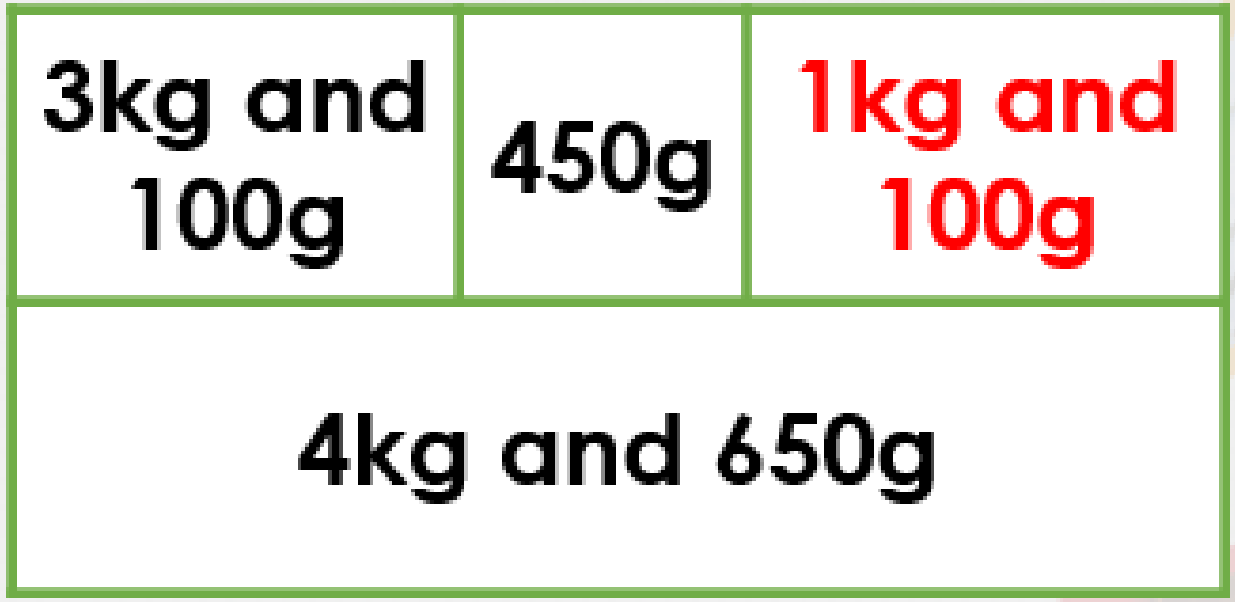
Complete the bar model.



Use the same method as last time to work out the missing weight.

Descriptive Doing - Answer

Complete the bar model.



The 3 parts of the bar model add together to equal 4kg and 650g.

Reflective Teaching

Use place value counters to find the difference between 4kg and 750g and $2\frac{1}{2}$kg.

Thousands	Hundreds	Tens
1000 1000 1000 1000	100 100 100 100 100 100 100	10 10 10 10 10

Draw place value counters in your book. Remember, there are 1000g in 1kg.
In 1/2 kg there are 500g.

When finding the difference, what operation do we need to use?

Reflective Teaching - Answers

Use place value counters to find the difference between 4kg and 750g and $2\frac{1}{2}$kg.

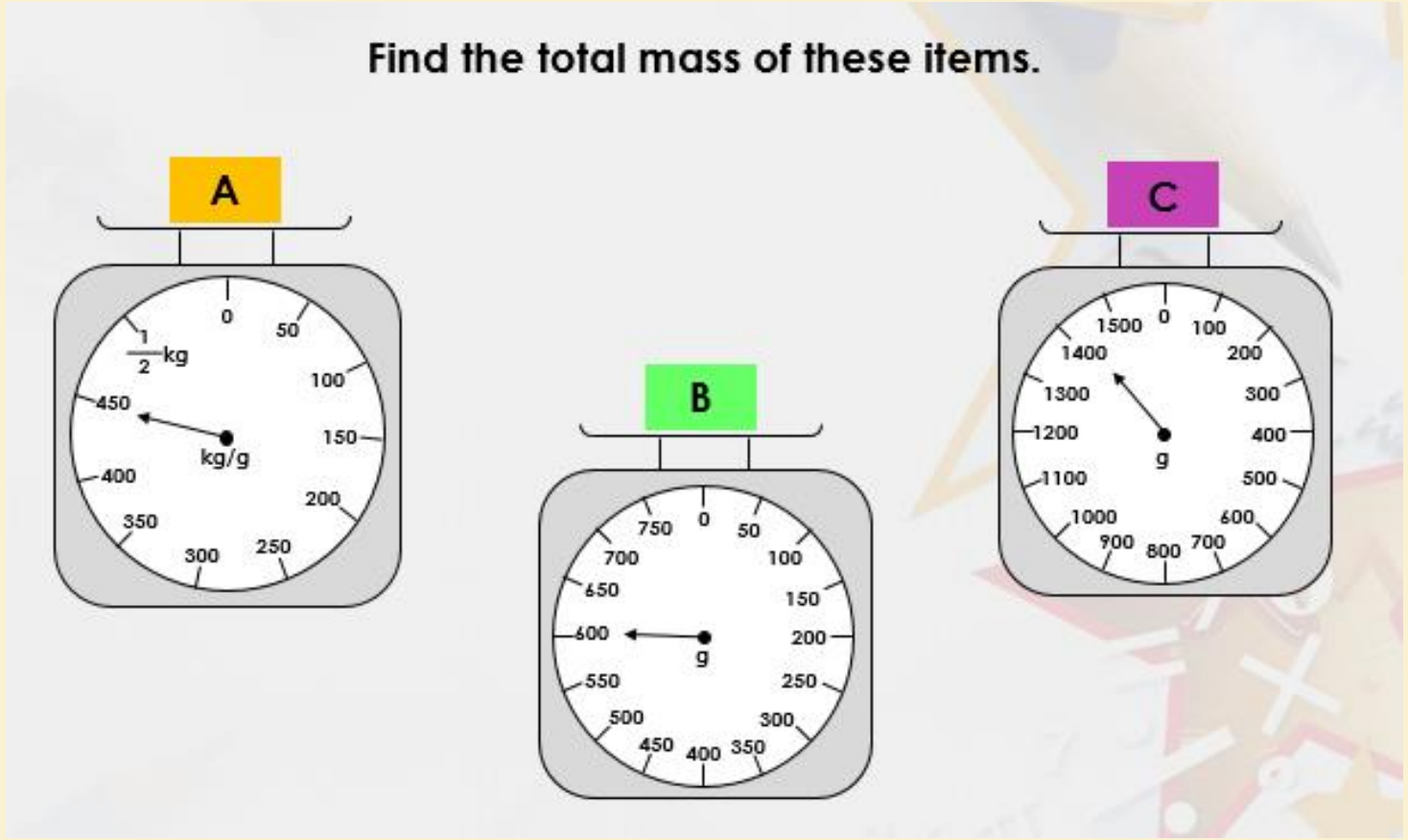
Thousands	Hundreds	Tens
1000 1000 ~~1000~~ ~~1000~~	100 100 ~~100~~ ~~100~~ ~~100~~ ~~100~~ ~~100~~	10 10 10 10 10

2,250g or 2kg and 250g

Y3

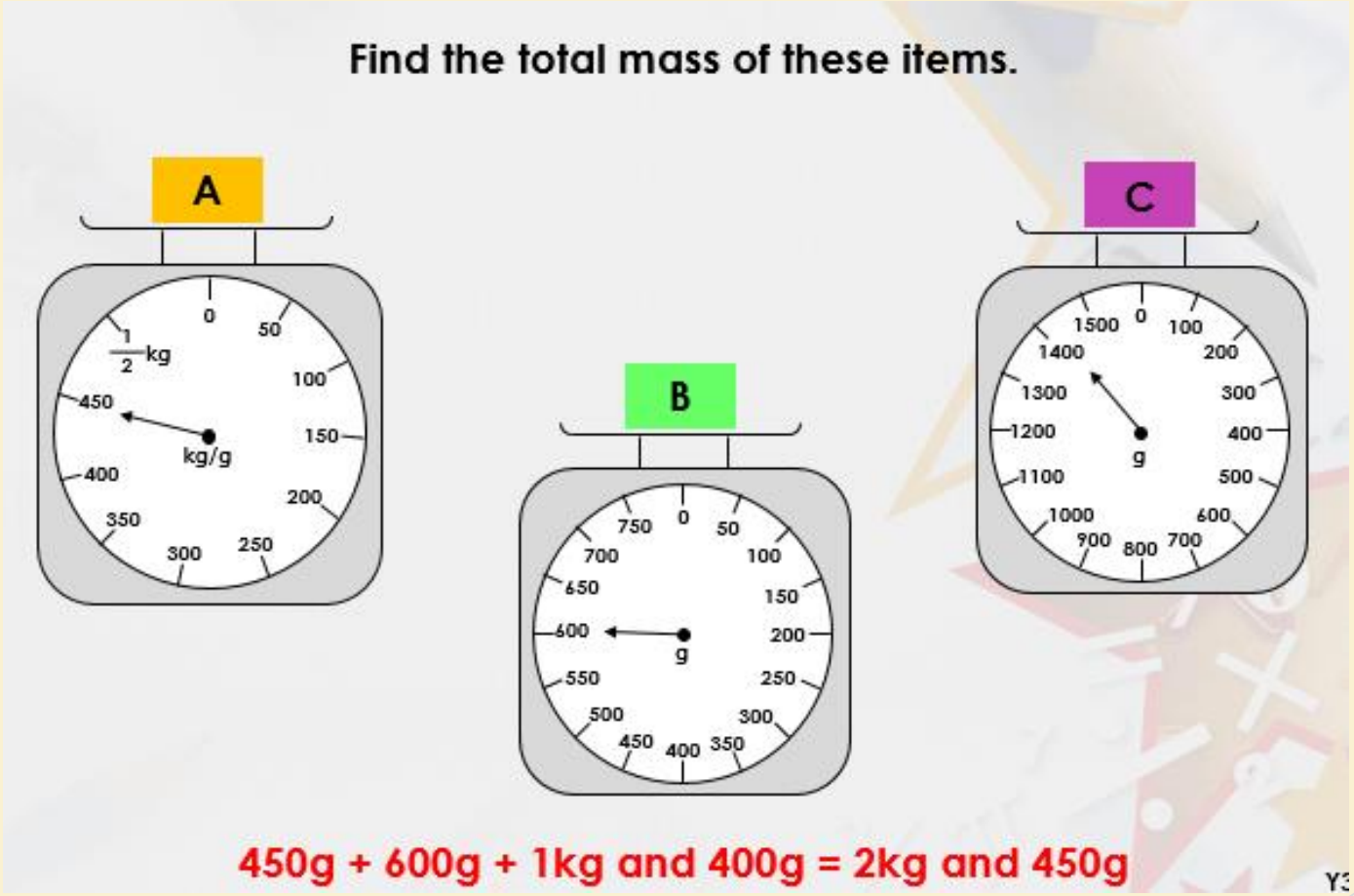
When finding the difference, we subtract!

Reflective Doing



To find the total, which operation do you need to use? Tell an adult and work out the problem in your book.

Reflective Doing - Answers



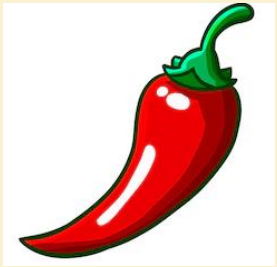
To find the total, we use addition!

Independent work

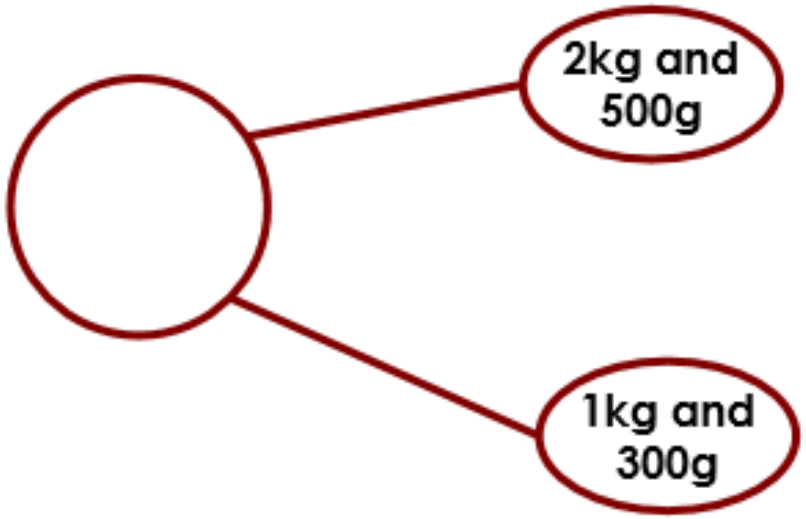
The following slides are questions for you to work through independently.

There are 3 sets of work - 1 chili (the easiest), 2 chilies, 3 chilies (the hardest). Choose one set you feel most comfortable with.

Independent work

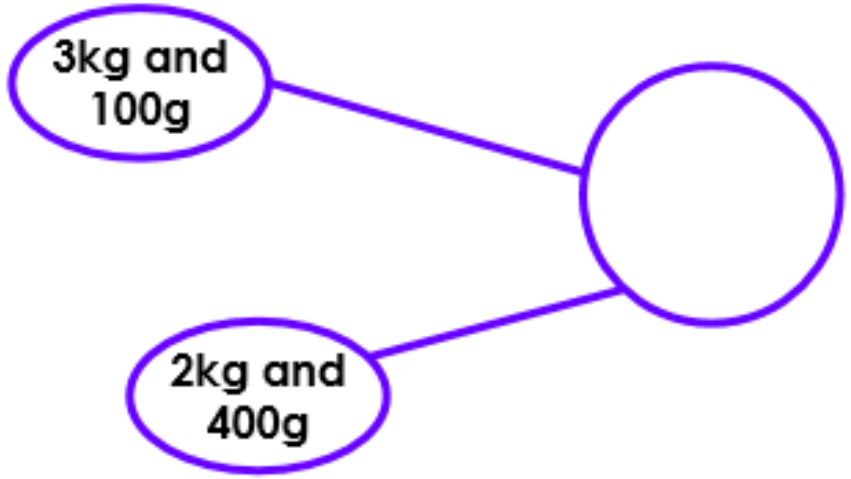


1a. Complete the part-whole model.



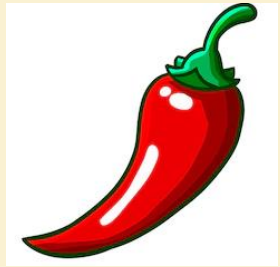
3 VF

1b. Complete the part-whole model.



3 VF

Independent work



2a. Complete the bar model.

1kg and 100g	
	300g

D

3 VF

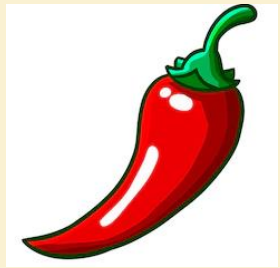
2b. Complete the bar model.

2kg and 100g	500g

D

3 VF

Independent work



3a. Use place value counters to find the difference between 3kg and 300g and 1kg and 800g.

Thousands	Hundreds	Tens
1000 1000 1000	100 100 100	

D

S VF

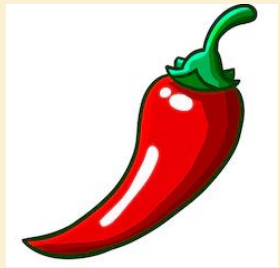
3b. Use place value counters to find the difference between 3kg and 400g and 1kg and 700g.

Thousands	Hundreds	Tens
1000 1000 1000	100 100 100 100	

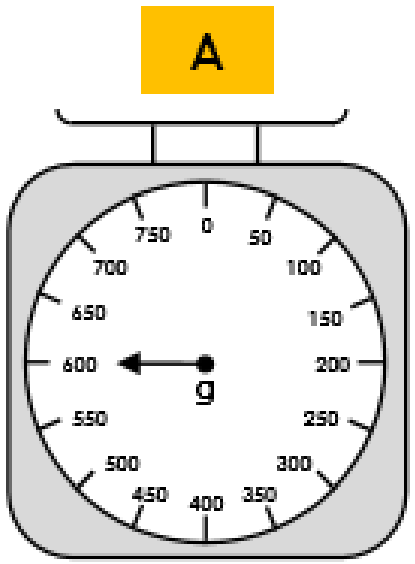
D

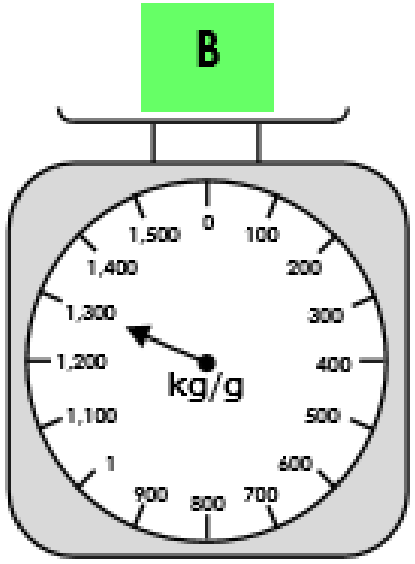
S VF

Independent work



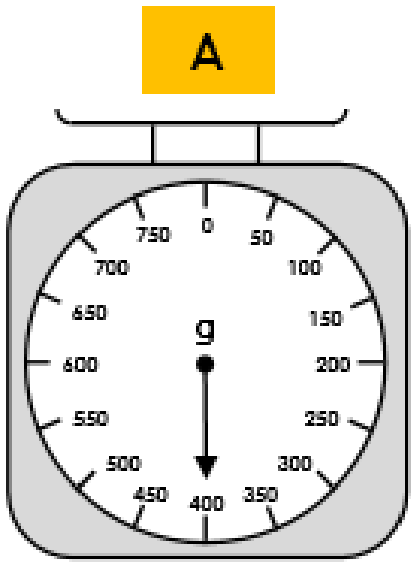
4a. Find the total mass of these items.

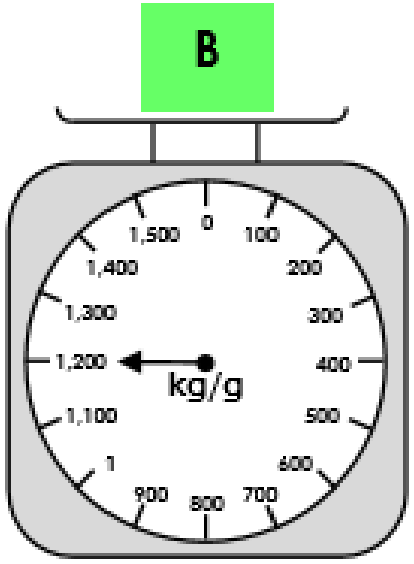




3 VF

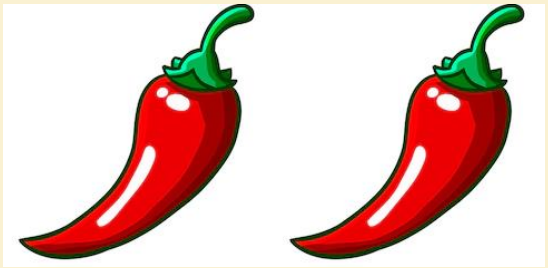
4b. Find the total mass of these items.



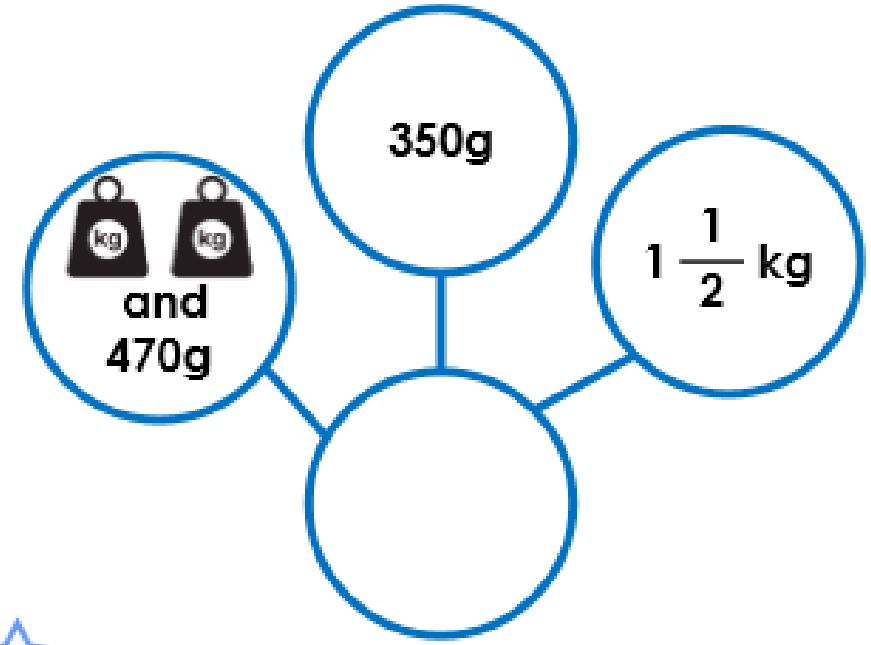


3 VF

Independent work



5a. Complete the part-whole model.

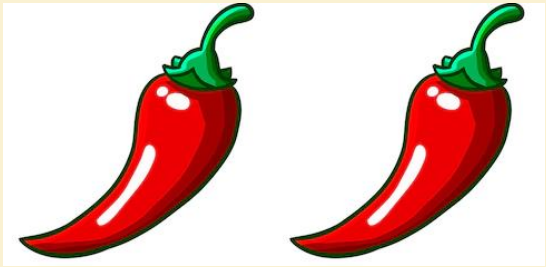


3 VF

5b. Complete the part-whole model.

3 VF

Independent work



6a. Complete the bar model.

1kg and 800g	4,030g	385g

E

3 VF

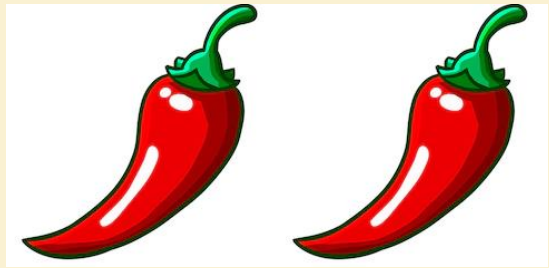
6b. Complete the bar model.

195g	4kg and 725g	2,365g

E

3 VF

Independent work



7a. Use place value counters to find the difference between $3\frac{1}{2}$ kg and 1kg 150g.

Thousands	Hundreds	Tens
1000 1000 1000	100 100 100 100 100	

E

3 VF

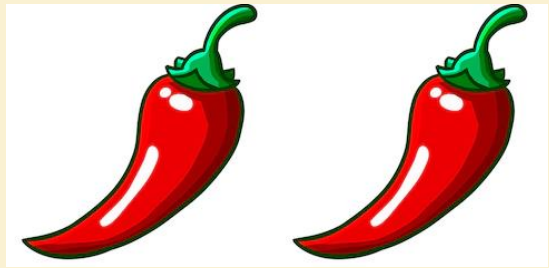
7b. Use place value counters to find the difference between 2kg and 350g and 1kg and 500g.

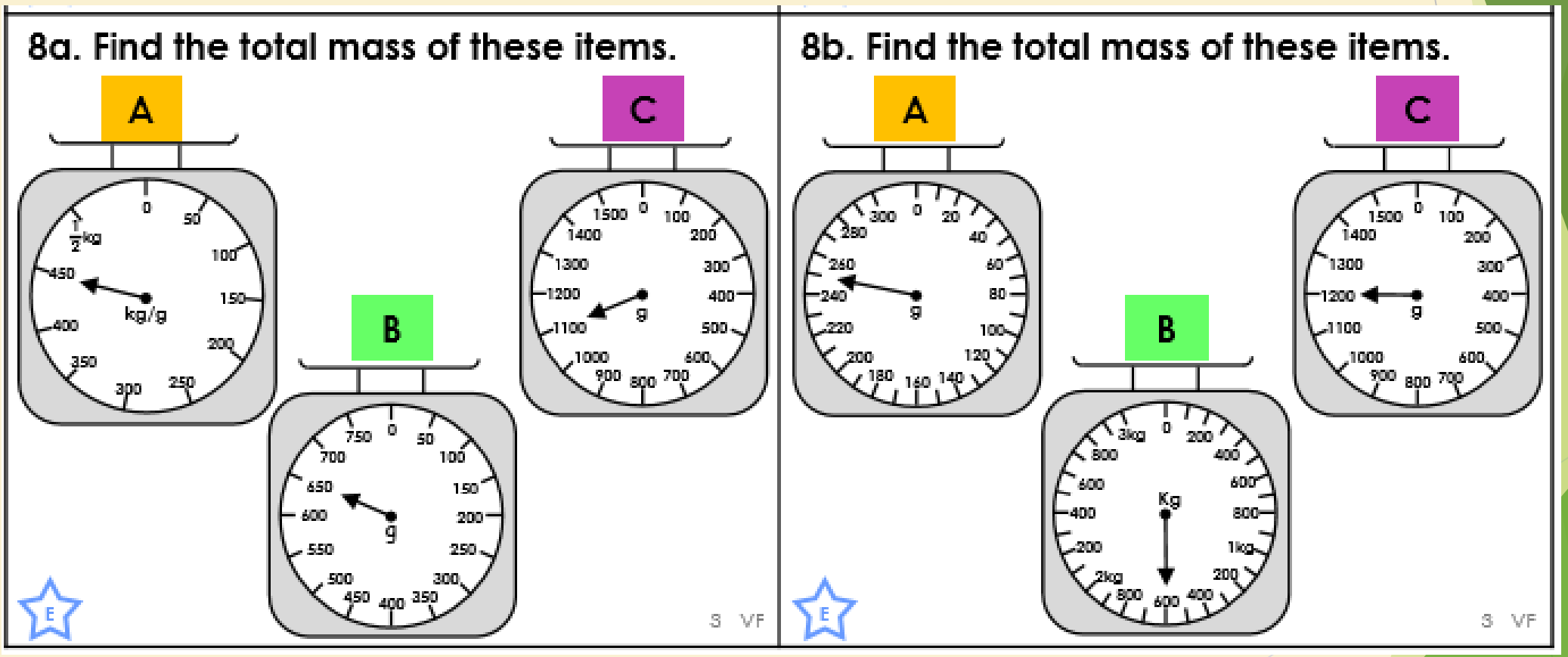
Thousands	Hundreds	Tens
1000 1000	100 100 100	10 10 10 10 10

E

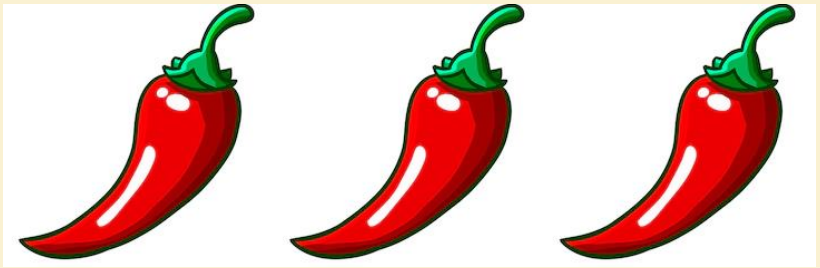
3 VF

Independent work

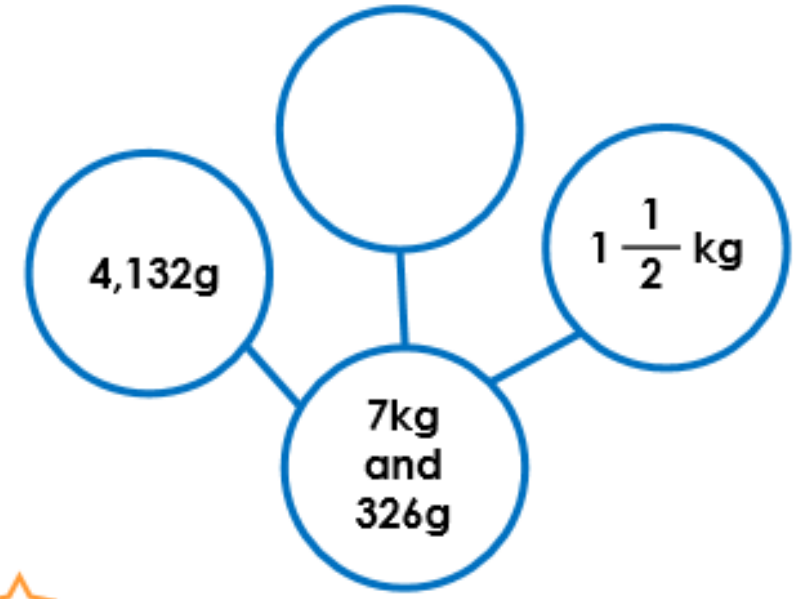




Independent work



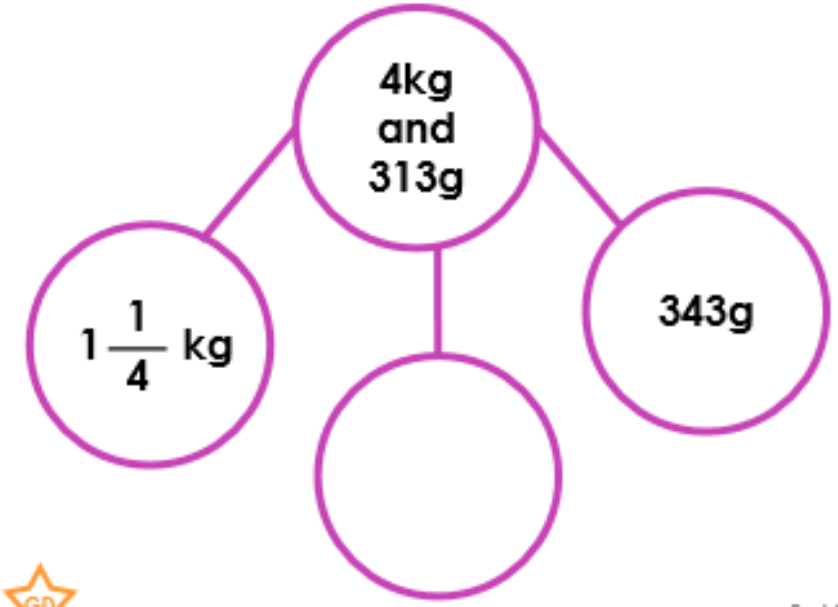
9a. Complete the part-whole model.



GD

3 VF

9b. Complete the part-whole model.



GD

3 VF

Independent work

10a. Complete the bar model.

7kg and 338g		
1,236g	2kg 251g	

GD

3 VF

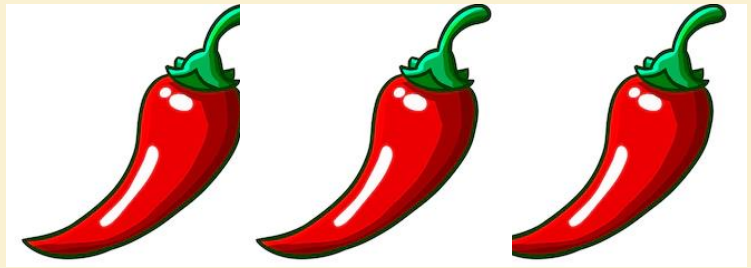
10b. Complete the bar model.

348g	1kg and 757g	$2\frac{1}{2}$ kg

GD

3 VF

Independent work



11a. Use place value counters to find the difference between 3kg 432g and 2kg 824g.

Thousands	Hundreds	Tens	Ones
1000 1000 1000	100 100 100 100	10 10 10	1 1

GD

3 VF

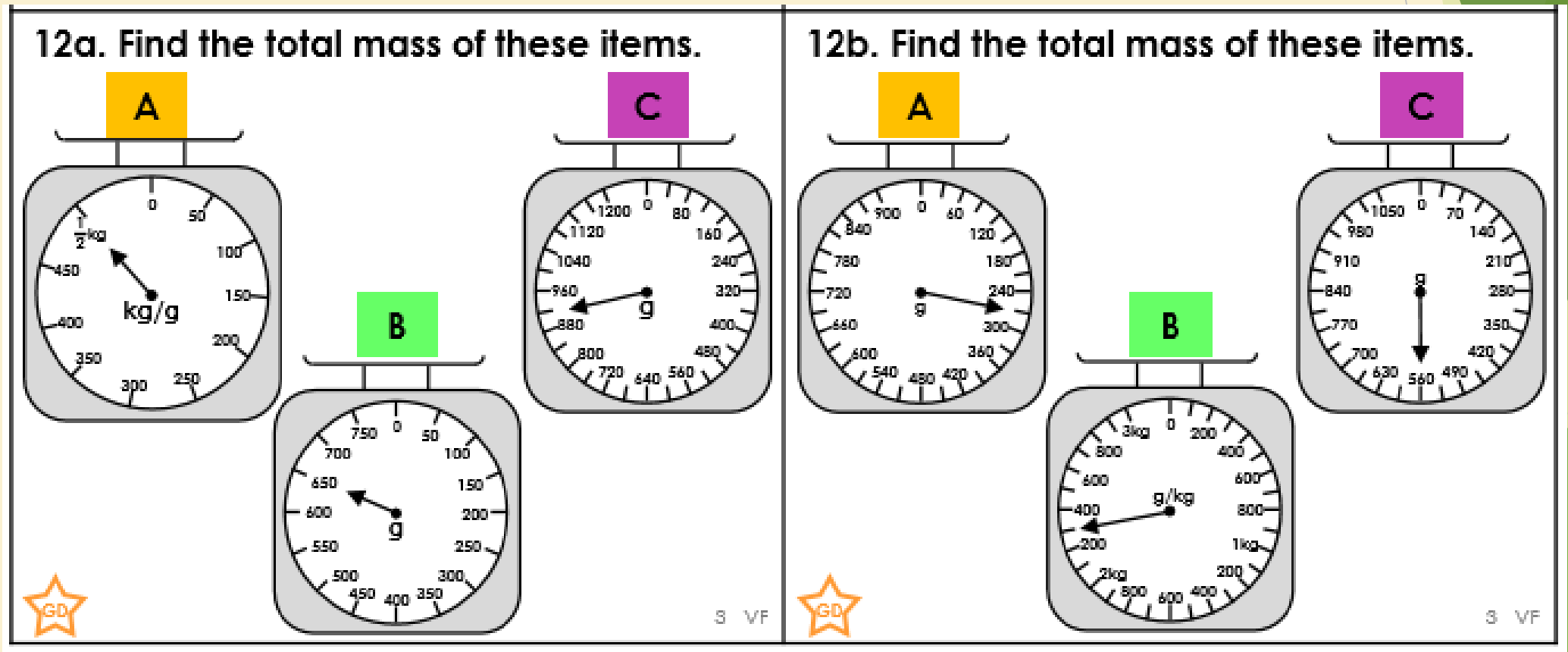
11b. Use place value counters to find the difference between 2kg 521g and 924g.

Thousands	Hundreds	Tens	Ones
1000 1000	100 100 100 100 100	10 10	1

GD

3 VF

Independent work



Answers

Developing

1a. 3kg and 800g
2a. 800g
3a. 1kg and 500g
4a. 1kg and 900g

Expected

5a. 4kg and 320g
6a. 6kg and 215g
7a. 2kg and 350g
8a. 2kg and 200g

Greater Depth

9a. 1kg and 694g
10a. 3kg and 851g
11a. 608g
12a. 2kg and 70g

Developing

1b. 5kg and 500g
2b. 2kg and 600g
3b. 1kg and 700g
4b. 1kg and 600g

Expected

5b. 9kg and 355g
6b. 7kg and 285g
7b. 850g
8b. 2kg and 50g

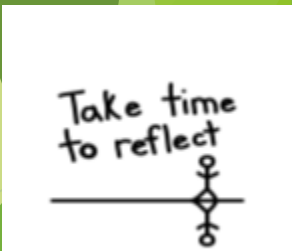
Greater Depth

9b. 2kg and 720g
10b. 4kg and 605g
11b. 1kg and 597g
12b. 3kg and 130g

Reflection Time

Yusuf is packing for his holiday. The maximum weight of his suitcase is 10kg. Find all of the possible combinations of three items he could put in his case. You must include the weight of the case.

- Case – 4kg and 700g
- Toiletry bag – 650g
- Shoes – 1400g
- Clothes – 2kg and 100g
- Swimwear – 850g
- Inflatable toy and pump – 2kg and 400g



Reflection Time - Answers

Yusuf is packing for his holiday. The maximum weight of his suitcase is 10kg. Find all of the possible combinations of three items he could put in his case. You must include the weight of the case.

- Case – 4kg and 700g
- Toiletry bag – 650g
- Shoes – 1400g
- Clothes – 2kg and 100g
- Swimwear – 850g
- Inflatable toy and pump – 2kg and 400g

Various answers, for example:

1. Inflatable toy and pump, shoes and swimwear (9kg and 350g)
2. Inflatable toy and pump, shoes and toiletry bag (9kg and150g)
3. Clothes, shoes and toiletry bag (8kg and 850g)