

LO: I CAN SOLVE A VARIETY OF WORD PROBLEMS (KG AND G).

Page

Success Criteria

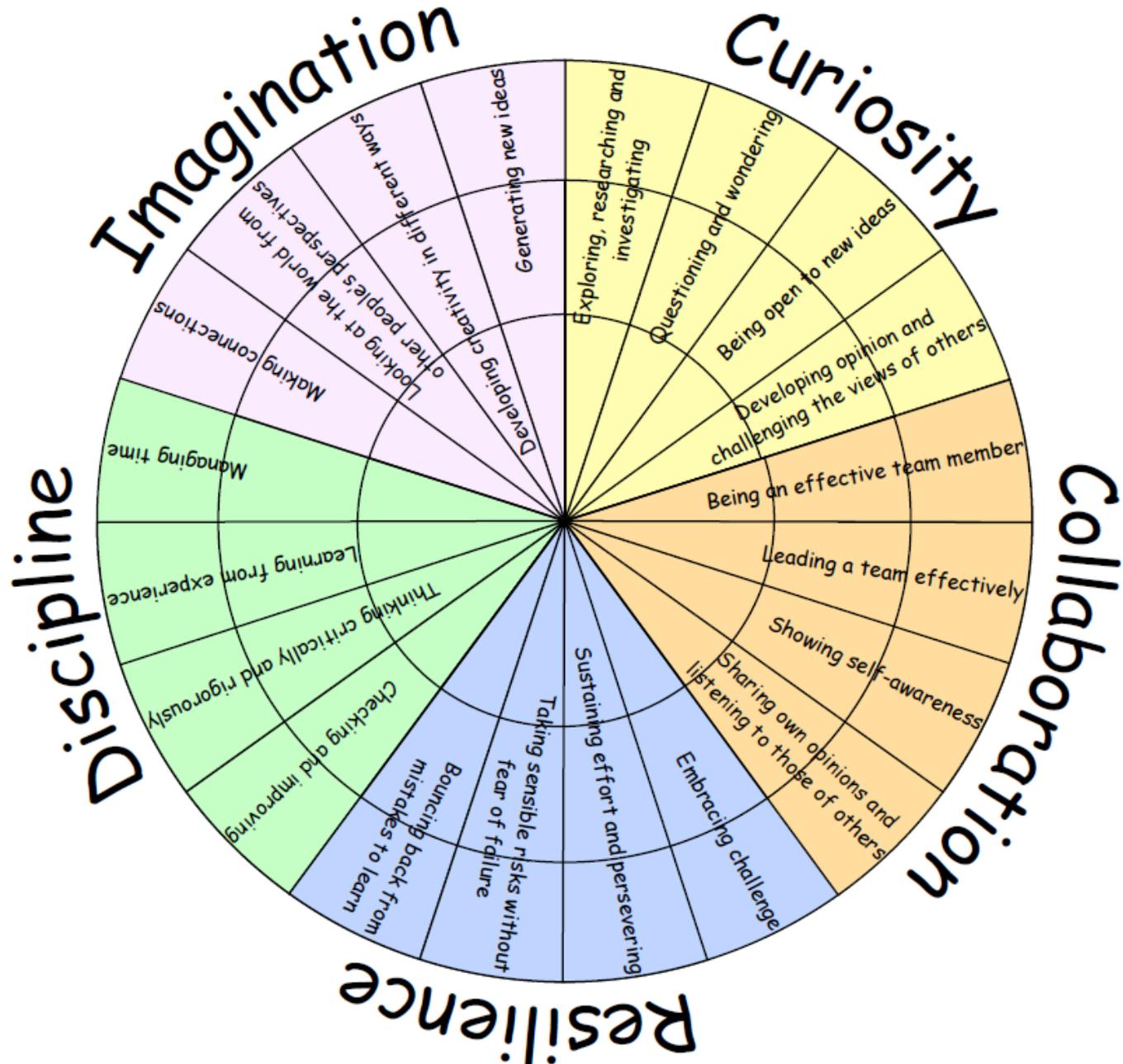
Some will even solve two step problems.

Some will solve a variety of one step problems.

Most will solve + - \times \div word problems.

All will solve simple + - \times \div word problems.

LEARNING HABITS?



WORD PROBLEMS

Addition

1 A sewing needle weighs 5 grams.
The cotton weighs 15 grams.
How much do they weigh altogether?

$$5g + 15g =$$



2 A pear weighs 100 grams.
A satsuma weighs 50 grams.
How much do they weigh altogether?

$$100g + 50g = \text{___}g$$



3 The potatoes weigh 3kg.
The carrots weigh 1kg.
How much do they weigh altogether?

$$3kg + 1kg = \text{___}kg.$$



4 I make a small fruit salad using:

- 30g of kiwi,
- 30g of bananas
- 20g of apples.

How many grams of fruit did I use?.



5 The toy truck weighs 100g.
There are four toy cars that
weigh 50g each.

How heavy is it altogether?



Subtraction

6 A packet of crisps weigh 25 grams.
I give my friend 13 grams.
How many grams are left?

$$25g - 13g = \text{___}g$$



7 An apple weighs 100 grams.
I eat 40 grams of it.
How many grams are left?

$$100g - 40g = \text{___}g$$



8 The soil bag weighs 5kg. I use 3kg in
the garden planting seeds.
How many kg are left?

$$5kg - 3kg = \text{___} kg.$$



9 This cake weighs 600g.

I eat a 100g slice.
How much is left?

I then eat another 100g slice.
How much is left?

Afterwards, I eat a 50g slice.
How much is left of the cake now?

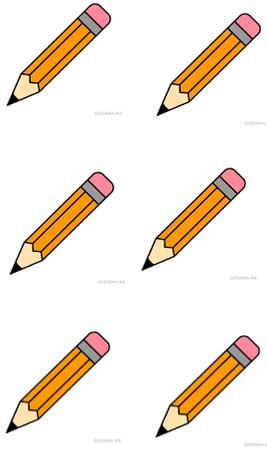


WORD PROBLEMS

Multiplication

Division

1 One pencil weighs 10 grams. Complete the table.



| Number of pencils | Weight in grams |
|-------------------|-----------------|
| 1 | 10g |
| 2 | ___ g |
| 3 | ___ g |
| | 40 g |
| | 50 g |

5 There are 400 grams of beans in a tin.

If I share them between 2 people they get ___ grams each.

If I share them between 4 people they get ___ grams each.



6 I buy a chocolate bar with 6 cubes. It weighs 120 grams.

How heavy is each cube?



2 A banana weighs 100g. How many grams will four bananas weigh?



$$4 \times \text{___} \text{g} = \text{___} \text{g}.$$

3 One teddy bear weighs 320g. How heavy do three weigh?



$$3 \times \text{___} \text{g} = \text{___} \text{g}.$$

4 One tree in plant pot weighs 12kg. How heavy will 4 plant pots be?



$$4 \times \text{___} \text{kg} =$$

7 I have a 10kg bag of soil for my garden.

I use 2kg to plant a tree. How much is left?

I use 1000g in plant pots. How much is left now?

I use 3000g in the back garden. How much is left now?



WORD PROBLEMS

1

John, Kate and Lucy weigh 200kg altogether.
John weighs 80kg.
Kate weighs 80kg too.



How heavy is Lucy?
Explain how you worked it out.

2

One kitten weighs 500g.
How heavy do three weigh?



They weigh _____ grams.
This is equivalent to ___kg and ___g.

3

Yesterday I bought 3kg of grapes.
This is equivalent to _____grams.



I ate half of the grapes.
How many grapes are left in grams?

4

I share 2800g of salt into four bags.
How many grams are in each bag?
Show your working out by sharing 100g.



| | | | |
|--|--|--|--|
| | | | |
|--|--|--|--|

5

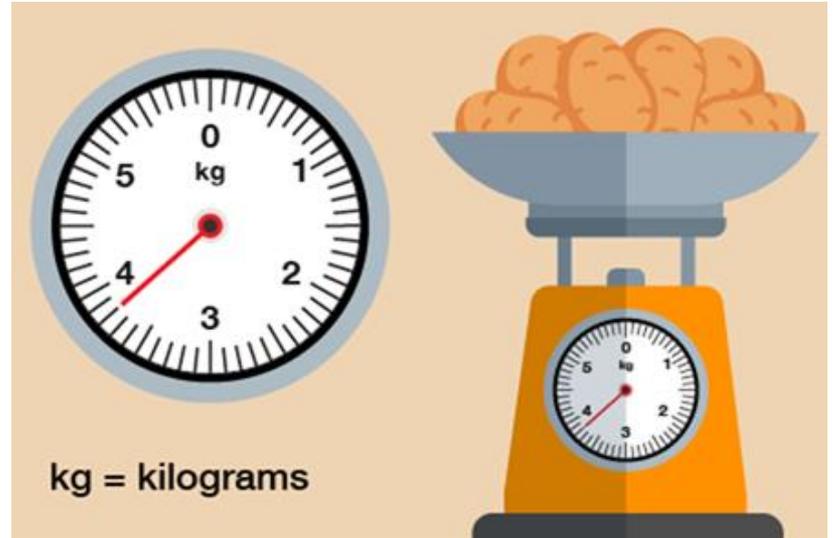
Sophie shares 3kg + 900g of sugar equally into 2 bags.
How many kilograms will go into the bags?



| | | |
|--|--|--|
| | | |
|--|--|--|

6

Are these potatoes more or less than 4kg?



How heavy are the potatoes exactly?
How do you know? Use the word 'interval' and 'scale'.

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WORD PROBLEMS

1

Alice buys two peaches and three pears.



One peach weigh 75 g

Three pears weigh the same as two peaches.



How much does one pear weigh?

2

Jenny uses the base ten and place value chart to help add 3kg and 400g + 2kg and 300g.

| Kilograms | Grams |
|---|---|
|  |  |
|  |  |

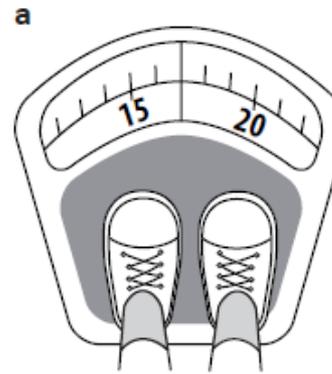
3

In your maths book, use the same approach to calculate:

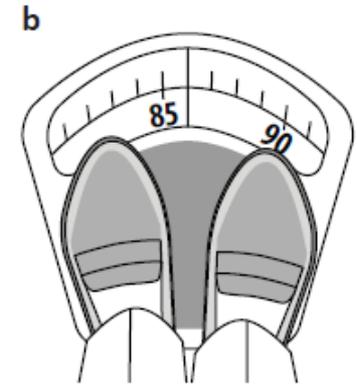
- 3kg and 450g + 4kg and 200g
- 4kg and 105g + 2kg and 300g
- 4kg and 400 g - 2kg and 100g
- 8kg and 600g - 1 kg and 550g

3

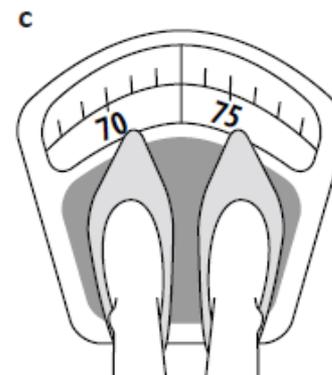
How much does each person weigh?



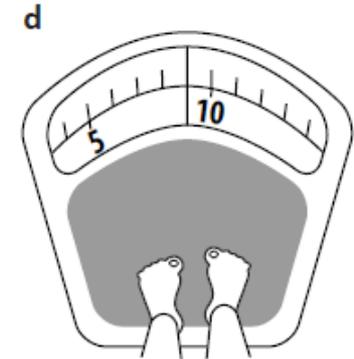
Mass = kg



Mass = kg



Mass = kg



Mass = kg

Who is the lightest? Who is the heaviest?
What is the difference between the lightest and heaviest weight?

WORD PROBLEMS



1

Workers at a factory pack cartons that hold a net mass (total mass) of 4kg. Calculate the quantity of each item that can be packed per carton.



500g



100g



50g



250g

- How many tins of soup can be packed into one carton?
- How many boxes of rice crackers can be packed into one carton?
- How many bars of chocolate can be packed into one carton?
- How many jars of jam can be packed into one carton?
- Would a carton containing 2 tins of soup or 10 jars of jam exceed the net mass?

2

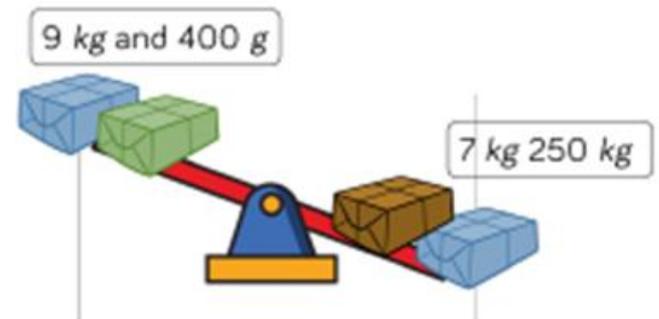
Choose an appropriate approach to solve:

- $7 \text{ kg} - \square = 5 \frac{1}{2} \text{ kg}$
- $3 \text{ kg and } 200 \text{ g} + \square = 4 \frac{1}{2} \text{ kg}$
- $4000 \text{ g} + \square - 1 \frac{1}{2} \text{ kg} = 3 \text{ kg}$

3

Look carefully at the scales. The green parcel weighs 5kg.

Work out that the blue and brown parcel weigh.



The blue parcel weighs _____g.

The brown parcel weighs _____g.

How much would the green and brown parcel weigh together?

Use this information to complete the table below.

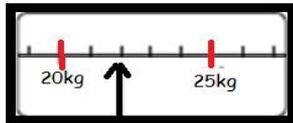
| Airline | Checked luggage allowance | Excess luggage fee per kg |
|-------------------|---------------------------|---------------------------|
| Pacific Airways | 23kg | £15 |
| Continental Air | 20kg | £14 |
| Budgetways | 20kg | £12 |
| National Airlines | 25kg | £18 |

WORD PROBLEMS

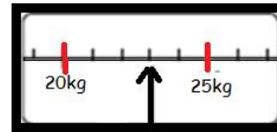


Will these passengers pay an excess luggage fee?

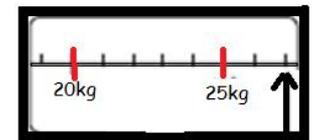
Kim is travelling with Budgetways.



Juan is flying with Continental Air.



Steve flies with national Airlines.



| Passenger | Airline | Luggage weight (kg) | Amount over | Excess luggage fee (£) |
|-----------|-------------------|---------------------|-------------|------------------------|
| Kim | Budgetways | | | |
| Juan | Continental Air | | | |
| Steve | National Airlines | | | |