

Year 5 - Measurement

Week 4

Lesson 1 measurement -weight – problem solving

Challenge 1

Solve these calculations:

Show your answer in G.

a) $3.1\text{kg} + 250\text{g} = 3100 + 250 = 3350\text{g}$

b) $5.2\text{kg} + 370\text{g} = 5200 + 370 = 5570\text{g}$

c) $7.3\text{kg} + 120\text{g} = 7300 + 120 = 7320\text{g}$

Show your answer in KG.

d) $3.8\text{kg} - 480\text{g} = 3.8 - 0.48 = 3.32\text{kg}$

e) $8.7\text{kg} - 190\text{g} = 8.7 - 0.19 = 8.51\text{kg}$

f) $9.5\text{kg} - 7,280\text{g} = 9.500 - 7.280 = 2.220\text{kg}$

Show your answer in G.

h) $7\text{kg} \times 4 = 21,000\text{g}$

i) $8\text{kg} \times 6 = 48,000\text{g}$

j) $5\text{kg} \times 12 = 60,000\text{g}$

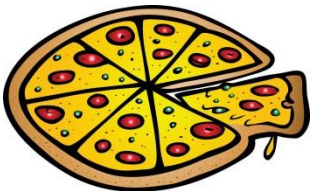
Show your answer in KG.

k) $2,608\text{g} \div 2 = 1.304\text{kg}$

l) $4,506\text{g} \div 2 = 2.253\text{kg}$

m) $3,120\text{g} \div 5 = 0.624\text{kg}$

Challenge 2



a) A large pizza weighs 2.45kg. James eats a 515g slice. In grams, how much pizza does James have left?

Answer = 1935g

b) A chef is preparing a pizza for a customer. He has 0.08kg of dough and adds 125g more. In kg, how much dough does the chef have?

Answer - 0.205kg

c) Mrs. Price eats 189g of pizza. Mr. Hunt eats six times as much. How many kg of pizza does Mr. Hunt eat?

Answer -1.134kg

d) 9.576kg of pizza is shared between seven friends. In grams, how much does each person get?

Answer – 1368g

Challenge 3



a) A portion of soup cooking on the fire weighs 5,354g **before** eight onions are added. Each onion weighs 0.04kg. In kg, how much does the soup weigh now the onions have been added?

$$8 \times 0.04 = 0.32$$

$$5,354\text{g into KG} = 5.354$$

$$5.354 + 0.32 = 5.674\text{kg}$$

b) A portion of soup cooking on the fire weighs 3.975kg. The first portion taken weighs 0.84kg and the second portion taken weighs 1,027g. In grams, how much of the soup is left now?

$$0.84\text{kg into grams} = 840\text{g}$$

$$1,027\text{g} + 840\text{g} = 1867\text{g}$$

$$3.975 \text{ into grams} = 3975\text{g}$$

$$3975 - 1867 = 2,108\text{g}$$

c) One pack of small vegetables weighs 18g. There are 8 packs in a bag. There are 24 bags of vegetables in a box. In kg, how heavy are all these vegetables?

$$18\text{g} \times 8 = 144\text{g}$$

$$144 \times 24 = 3,456\text{g}$$

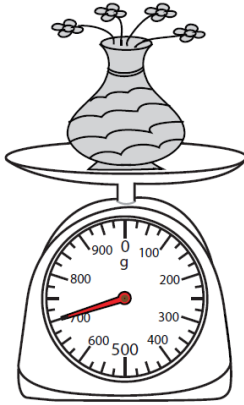
$$3,456\text{g into kg} = 3.456\text{kg}$$

Year 5 - Measurement

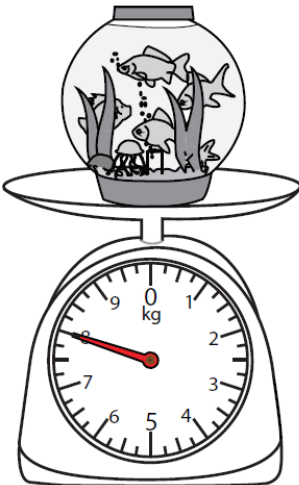
Week 4

Lesson 2 measurement -weight – problem solving using scales

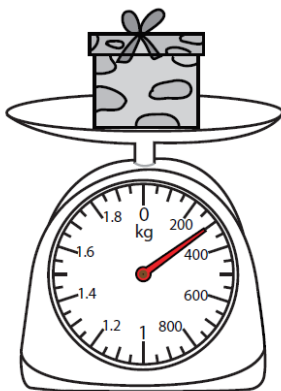
Challenge 1



a) add 0.3kg = 1kg

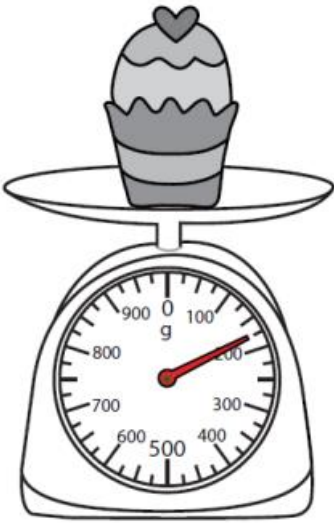


b) subtract 2,000g = 6,000g



c) Add 0.55kg = 0.85kg

Challenge 2



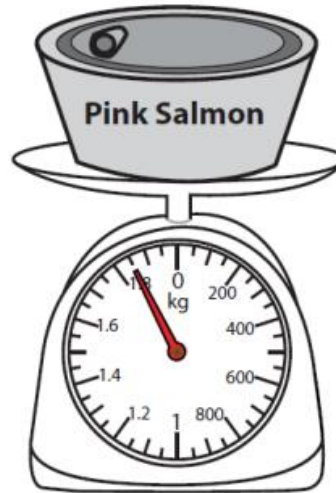
a) Five more cakes, that weigh exactly the same as this one, are placed onto the scales. In kg, how much do the scales now say?

$$175\text{g} \times 5 = 875\text{g}$$
$$\text{g to kg} = 0.875\text{kg}$$

b) One cake is on the scales. 0.04kg of this cake is eaten. In kg, how much of this cake is left now?

$$175\text{g into kg} = 0.175\text{kg}$$
$$0.175 - 0.04 = 0.135\text{kg}$$

Challenge 3



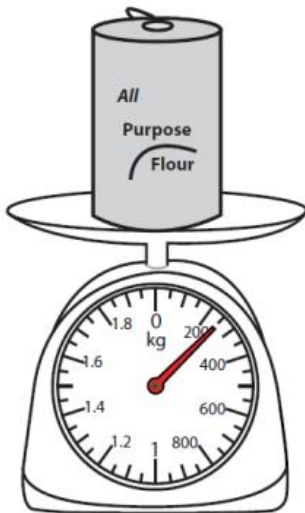
a) This pink salmon is shared between five people. In grams, how much does each person get?

$$1.85\text{kg into g} = 1850\text{g}$$
$$1850 \text{ divide by } 5 = 370\text{g}$$

b) 929g of this pink salmon is eaten. In grams, how much is left?

$$1850\text{g} - 929\text{g} = 921\text{g}$$

Challenge 4



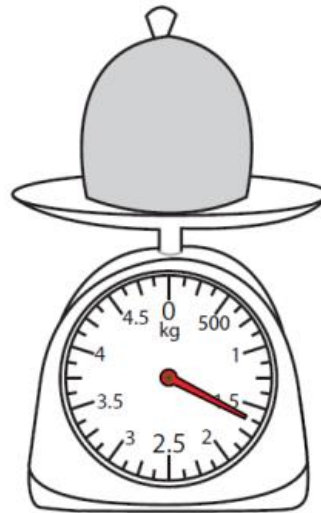
a) 0.068kg of flour is added to this scale. How much flour is there now, in kg?

$$250\text{g into kg} = 0.25\text{kg}$$
$$0.25 + 0.068 = 0.318\text{kg}$$

b) Nine times more flour than this is used. In kg, how much flour was used?

$$250\text{g} \times 9 = 2250\text{g}$$
$$2250 \text{ into kg} = 2.25\text{kg}$$

Challenge 5



a) 827g of pie is eaten but then, 414g are added. How much do the scales say now, in grams?

$$1625\text{g} - 827\text{g} = 798\text{g}$$
$$798 + 414 = 1212\text{g}$$

b) This pie is shared between five people. In grams, how much do they all get?

$$1625\text{g divided by } 5 = 325\text{g}$$

Year 5 - Measurement

Week 4

Lesson 3 measurement -volume –

Challenge 1

Convert these measurements.

ML to L:

a) $5,652 = 5.652\text{L}$

b) $219 = 0.219\text{L}$

c) $16 = 0.016\text{L}$

d) $54 = 0.054\text{L}$

e) $394 = 0.394\text{L}$

L to ML:

f) $0.09 = 90\text{ml}$

g) $0.745 = 745\text{ml}$

h) $1.38 = 1,380\text{ml}$

i) $0.005 = 5\text{ml}$

j) $0.46 = 460\text{ml}$

Challenge 2

Put $<$ $>$ or $=$ in between the two measurements that you have been given.

ML	Comparison	L
47	$<$	0.47
600	$=$	0.6
541	$>$	0.52
1,000	$>$	0.1
671	$>$	0.67
335	$<$	0.35

Challenge 2 Part 2



A maths criminal is on the loose! I'm sure that the criminal has completed these comparisons incorrectly. Please check if they are correct or incorrect. **I need you to write the correct answers if you think that they are wrong!** Thanks!

ML	Comparison	L	Is this correct?
400	$>$	4	Incorrect
80	$>$	0.008	Incorrect
500	$=$	0.5	correct

Year 5 - Measurement

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Lesson 4 measurement -volume – problem solving

Challenge 1

Solve these calculations:

Show your answer in ML.

a) $3.3\text{L} + 270\text{ML} = 3,300\text{ml} + 270\text{ml} = 3,670\text{ml}$

b) $5.9\text{L} + 380\text{ML} = 5,900\text{ml} + 380\text{ml} = 6,280\text{ml}$

Show your answer in L.

c) $3.9\text{L} - 450\text{ML} = 3.9\text{L} - 0.45\text{L} = 3.45\text{L}$

d) $8.6\text{L} - 170\text{ML} = 8.6\text{L} - 0.17\text{L} = 8.43\text{L}$

Show your answer in ML.

e) $8\text{L} \times 4 = 32,000\text{ml}$

f) $9\text{L} \times 6 = 54,000\text{ml}$

Show your answer in L.

g) $4,608\text{ML} \div 2 = 2,304\text{L}$

h) $6,506\text{ML} \div 2 = 2,253\text{L}$

Challenge 2

- a) A 4L bottle of lemonade is shared between five people equally. How many ML does each person get?

$4\text{L} = 4,000\text{ml}$

$4000 \text{ divide by } 5 = 800\text{ml}$

- b) A thirsty girl drinks four glasses of orange squash in one day, each containing 425ML. How many L of orange squash does the girl drink?

$425\text{ml} \times 4 = 1,700\text{ml}$

$1,700 \text{ into L} = 1.7\text{L}$

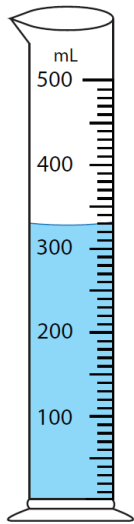
- c) 3,565ML of petrol is poured into a car. The car drives a few miles, which uses 0.63L. How many ML of petrol does the car now have?

$3565\text{ml into L} = 3.565\text{L}$

$3.565\text{L} - 0.63 = 2.935\text{L}$

$2.935\text{L into ml} = 2935\text{ml}$

Challenge 3



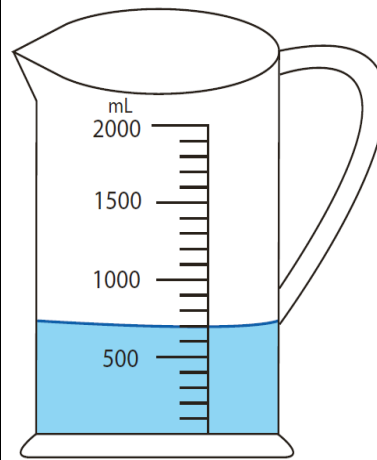
0.21L are poured out of this measuring cup.

How many ML are left in the cup now?

$$0.21\text{L} = 210\text{ML}$$

$$360\text{ML} - 210\text{ML} = 150\text{ML}$$

0.452L are added to this measuring cup. How many ML are in the cup now?



$$0.452\text{L} = 452\text{ML}$$

$$700\text{ML} + 452\text{ML} = 1152\text{ML}$$