



**MULTI-STEP PROBLEM SOLVING**  
 (Using column methods)

8

4 This table shows the heights of three mountains.

Mountain	Height in metres
Mount Everest	8,848
Mount Kilimanjaro	5,895
Ben Nevis	1,344

At the start of June, there were 1,793 toy cars in the shop.

During June,

- 8,728 more toy cars were delivered
- 9,473 toy cars were sold.

How much higher is Mount Everest than the combined height of the other two mountains?

How many toy cars were left in the shop at the end of June ?



Show your method

metres



Show your method

13 Ally and Jack buy some stickers.

Ally buys a pack of 12 stickers for £10.49

Jack buys 12 single stickers for 99p each.

How much more does Jack pay than Ally?



Pack of 12 stickers  
£10.49

12 stickers  
99p each

Show your method

£

19

Amina posts three large letters.

The postage costs the same for each letter.

She pays with a £20 note.

Her change is £14.96

What is the cost of posting **one** letter?



Show your method

£
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5

The children at Farmfield School are collecting money for charity.

Their target is to collect £360

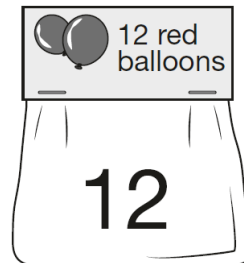
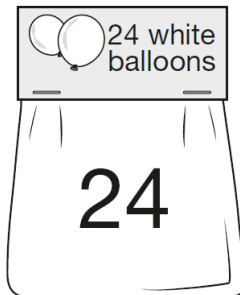
So far they have collected £57.73

How much **more** money do they need to reach their target ?



£
---

12



Adam buys 6 bags of white balloons.

Chen buys 3 bags of red balloons.

*'I have four times as many balloons as Chen.'*

Adam says,

Explain why Adam is correct.

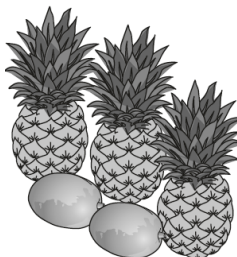


Empty cloud-shaped box for explanation.

14

3 pineapples cost the same as 2 mangoes.

One mango costs £1.35



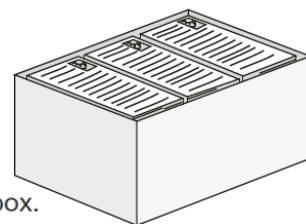
How much does **one** pineapple cost?

Show your method

£
---



16



There are 2,400 leaflets in a box.

William and Ally take 450 leaflets each.

Adam and Chen share the rest of the leaflets equally.

How many leaflets does Adam get?



Show your method

--

20

Lara had some money.

She spent £1.25 on a drink.

She spent £1.60 on a sandwich.

She has **three-quarters** of her money left.



How much money did Lara have to **start with**?

Show your method

6

Jacob cuts **4 metres** of ribbon into **three** pieces.

The length of the first piece is **1.28 metres**.

The length of the second piece is **1.65 metres**.



Work out the length of the third piece.

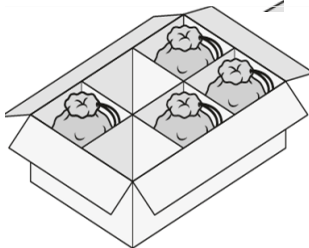
Show your method

11

A toy shop orders 11 boxes of marbles.

Each box contains 6 bags of marbles.

Each bag contains 45 marbles.

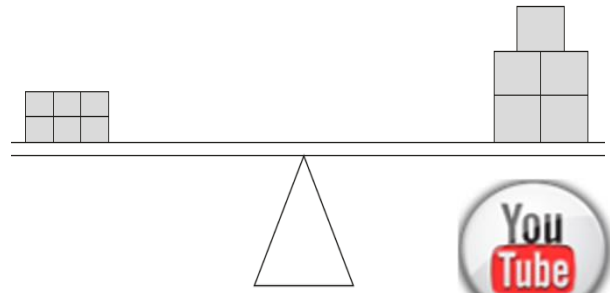


How many **marbles** does the shop order in total?

Show your method

16

6 small bricks have the same mass as 5 large bricks.



The mass of one small brick is 2.5 kg.

What is the mass of one large brick?

Show your method

2

A pack of paper has 150 sheets.

4 children each take 7 sheets.



How many sheets of paper are left in the packet?

Show your method

Grid area for showing the method. A box labeled "sheets" is provided for the answer.

The mass of a 10p coin is 6.5g.

9

The mass of a 5p coin is half the mass of a 10p coin.

What is the mass of these six coins **altogether**?



Show your method

Grid area for showing the method. A box labeled "grams" is provided for the answer.

16

Large pizzas cost £8.50 each.

Small pizzas cost £6.75 each.

Five children together buy one large pizza and three small pizzas.

They share the cost equally.

How much does each child pay?



Show your method

Grid area for showing the method. A box labeled "£" is provided for the answer.

10

A bag of 5 lemons costs £1

A bag of 4 oranges costs £1.80



How much **more** does one orange cost than one lemon?

Show your method

Grid area for showing the method. A box labeled "£" is provided for the answer.

16

Lara chooses a number less than 100

She divides it by 3 and then subtracts 11

She then divides this result by 2

Her answer is 10.5

What was the number she started with?

Show your method

Grid area for showing the method. A box is provided for the answer.



# Y6 SATs

# Problem Solving

Help Code : 012

# BOOSTER

2006A KS2 Q7



Lin needs to solve this problem.

**'How many children are in the class?'**



Tick (✓) **all** the information that Lin needs to solve her problem.

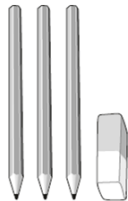
- There are 9 girls in the class.
- 5 girls in the class wear glasses.
- There are twice as many boys as girls in the class.

9

6 pencils cost **£1.68**



3 pencils and 1 rubber cost **£1.09**



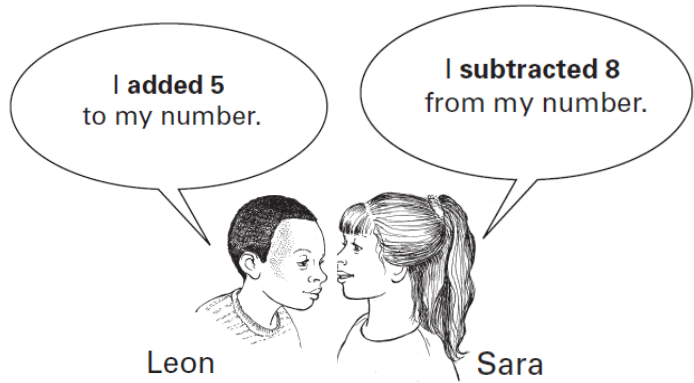
What is the cost of **1 rubber?**

Show your method

2000A KS2 Q12



Leon and Sara each started with **different** numbers.



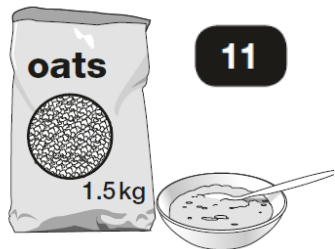
Leon and Sara both get the **same** answer.

What numbers could they have started with?

Leon

Sara

A packet contains 1.5kg of oats.



11

Every day Maria uses 50g of oats to make porridge.

How many days does the packet of oats last?

Show your method

days

19

Miss Mills is making jam to sell at the school fair.



Strawberries cost £7.50 per kg.

Sugar costs 79p per kg.

10 glass jars cost £6.90

She uses 12 kg of strawberries and 10 kg of sugar to make 20 jars full of jam.

Calculate the total cost to make 20 jars full of jam.

Show your method

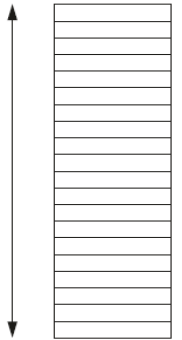
13

A stack of 20 identical boxes is 140 cm tall.



Not actual size

140 cm



Stefan takes **three** boxes off the top.

How tall is the stack now?

Show your method