

Tuesday 14th July 2020

Yearly Round-up

Hi Yachts!

Mental Maths

Choose the best option for you then solve the problem in your head:

Option 1: How much is one third of 18? How much is two thirds of 18? How much is three thirds of 18?

Option 2: How much is one sixth of 18? How much is two sixths of 18?

Option 3: Which fractions are equivalent to one third?

Choose which set of problems to solve and use the RUCSAC method to help you:



Read

Read the question carefully.



Underline

Underline or write down the keywords and numbers.



Choose

Choose the correct operation (+ - x or ÷) and a mental or written method of calculation (you could use diagrams).



Solve

Solve it! Make sure you follow the steps carefully.



Answer

Check that you have answered the question properly. What did you need to find out in the first place?



Check

Check your answer. Use the inverse calculation or another checking technique (was it close to your estimate?)

1. At the fair, I paid 7p for the first ride, 5p for the second ride and 3p for the third ride. How much did I spend on rides in total?
2. The Dragon Ride costs 29p and the Helter Skelter costs 7p. What is the difference in price?
3. What is the sum of the coconuts?



4. A group of children were split into 4 groups for the fair. There were 3 children in each group. How many children went to the fair?

5. To win a game, Laura had to partition 23 in two different ways.
She wrote $23 = 20 + 3$

Can you partition 23 in another way?

6. Jimmy has to select two numbers cards which give him the total of 118. Circle two of the number cards which make the total.



7. Sam is sharing his 32 sweets between his 8 friends. How many do they get each?
8. A farmer buys 134 chickens from his friend Joe then another 25 from his friend Susan. The farmer wants to find the total number of chickens he has bought using his mental maths. Show how he could do this.

Challenges

9. How much more does it cost for a lawn mower than a tractor engine? The farmer can't use column method so help him to solve this another way.

Item	Cost
Tractor engine	£823
Lawn mower	£900
Combine harvester part	£1,123
Seed bag	£256

10. At the farmers' market, a farmer sells three cows for £250 each and a pig for £240. How much money did he make?
11. The total length of the field is 16.4 metres. The farmer is planning to build a trough which will take up $\frac{1}{4}$ of the field. How long will the trough be in centimetres?
12. A visitor at a car show bought an Austin Montego and a Triumph Acclaim. What was his total expenditure? Calculate this without using the column method.

Type of car	Price
Austin Montego	£70,875
Triumph Acclaim	£56,200
Rover 200	£23,999