

Working mathematically

- Reasoning
- Questioning
- Applying strategies
- Communicating
- Reflecting



What is mathematical fluency?

A child knows her number bonds to 20, but when given the following task.. she counts on her fingers!!

$$8+7$$

What is missing in her thinking?



Seeing a Pattern

$$2+3 = 5$$

$$12+3 = 15$$

$$22+3 = 25$$

$$72+3 = ???$$

$$182 + 3 = ???$$

Seeing Connections

By just looking at the numbers!!!

$$6+4 =$$

$$4+6 =$$

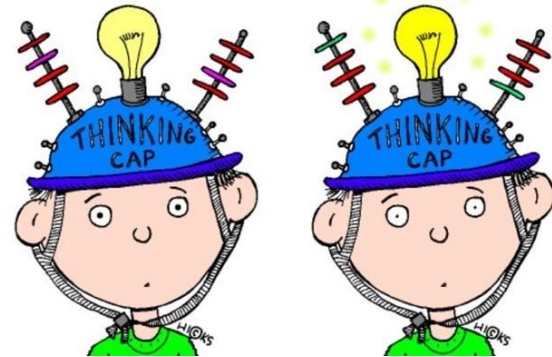
$$10-6 =$$

$$10-4 =$$

Get them thinking!

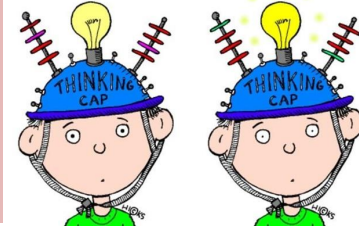
My answer is 20

What is the question?



[Give them coins, pasta, milk bottle tops etc]

Mmmm!!



Given that $4 \times 5 = 20$

What else can do you know?

$$5 \times 4 = 20$$

$$20 \div 4 = 5$$

$$20 \div 5 = 4$$

Fractions

- Numbers
- Shapes
- Piece of wool or string

Chicken and Sheep

A farmer looks across a field of chicken and sheep. He counts 3 heads and 10 legs. How many chicken and sheep does he have?

Chicken and Sheep

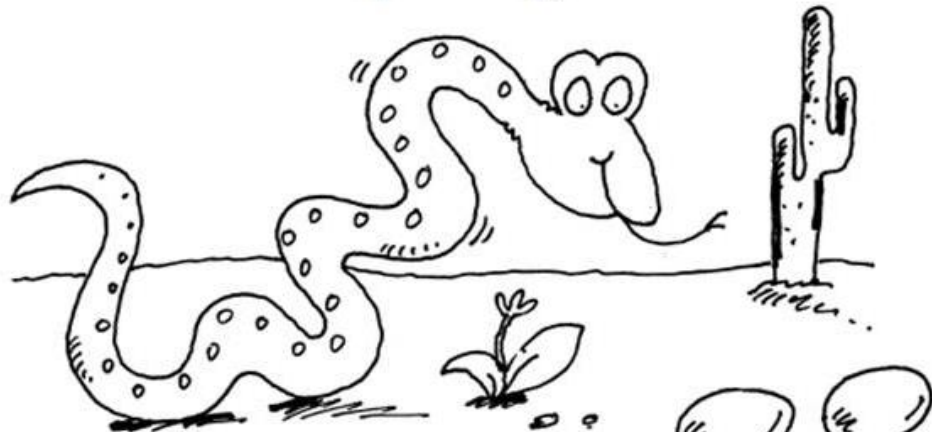
A farmer looks across a field of chicken and sheep. He counts 26 heads and 74 legs. How many chicken and sheep does he have?

Count backwards from any given number

What is the hardest part about this???

Susie the snake

Susie the snake has up to 20 eggs.




She counted her eggs in fours.
She had 3 left over.

She counted them in fives.
She had 4 left over.


How many eggs has Susie got?




Remember 'RUCSAC' when solving word problems!




R **Read**
Read the question carefully. What is the important information?




U **Understand**
Understand the question. What do you have to find out?




C **Choose**
Choose the right operation(s) and method of calculation.



S **Solve**
Solve the problem! Make sure you follow all the steps.



A **Answer**
Have you answered the question? What were you meant to find out?



C **Check**
Check your answer. If possible, use the inverse to check your working out.

Read, Understand, Choose, Solve, Answer, Check