

## Riddles

1. Greece
2. A Brain
3. Make orange juice and serve them equally
4. February
5. The man is a barber
6. An echo
7. They are grandfather, father and son

## Wuzzles

1. Sandbox
2. Man onboard
3. Strength in numbers
4. I Understand
5. Reading between lines
6. Split Level
7. Crossroad

## Math Puzzles

### Question 1

	5 YRS AGO	PRESENT	5 YRS LATER
KATE	$5x$	$5x + 5$	$5x + 10$
SON	$x$	$x + 5$	$x + 10$

Now we know that in 5 years her age will be 8 less than three times her Son's age at that time.

So, if we add 8 to (Kate's age 5 years from now), it will be equal to 3 times (her Son's age 5 years from now) and then we can use algebra to solve it!

So:

$$(5x + 10) + 8 = 3(x + 10)$$

$$5x + 18 = 3x + 30$$

$$5x - 3x = 30 - 18$$

$$2x = 12$$

$$x = 12 / 2$$

$$x = 6$$

Now Kate's Present age is  $5x + 5$

$$\Rightarrow 5(6) + 5$$

$$= 30 + 5$$

$$= 35 \text{ YEARS!!}$$

Now her Son's Present age is  $x + 5$

$$\Rightarrow 6 + 5$$

$$= 11 \text{ YEARS!!}$$

## Question 2

10 hours 70 minutes equals 11 hours 10 minutes.

## Question 3

64 Triangles

There are also 36 Quadrilaterals

## Question 4

He was born on December 31st and spoke about it on January 1st.

'The day before yesterday I was only 25...'

Dec 30: 25

Dec 31: 26

Jan 1 (this year): 26

'...next year I will turn 28'

Dec 31 (this year): 27

Dec 31 (next year): 28