

**Sums. They're Math Magic**

**19 – More Funny Sums**

**Please go through each slide stopping until you have understood the concept described**

# Sums. They're Math Magic

## 19 – More Funny Sums

**Lots of Fours**

**How can you link the following numbers:**

**1 and 4**

**2 and 16**

**3 and 64**

**5 and 128**

**What does 6 link to?**

# Sums. They're Math Magic

## 19 – More Funny Sums

### Lots of Fours

How can you link the following numbers:

They are increasing indices for the number 4

1 and 4

$$4^1 = 4$$

2 and 16

$$4^2 = 16$$

3 and 64

$$4^3 = 64$$

5 and 128

$$4^5 = 128$$

What does 6 link to?

$$\text{So } 4^6 = 256$$

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## 19 – More Funny Sums

### The Lilly Pond



Mary planted a lilly in the fish pond.

It grew so that it doubled in size every week.

After 30 weeks it totally covered the pond.

When did it just cover half the pond?

# Sums. They're Math Magic

## 19 – More Funny Sums

### The Lilly Pond



**I doubles in size every week.**

**After 30 weeks it totally covered the pond.**

**When did it just cover half the pond?**

**Week 29**

# Sums. They're Math Magic

## 19 – More Funny Sums

### The Twins

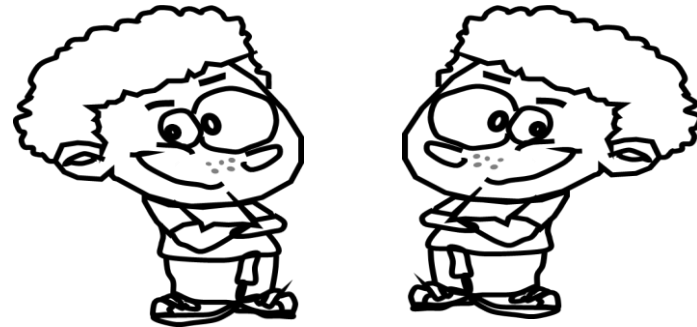
Say:

*“Twins were born in March and had their birthday in September.*

*When one was 30 the other was 32*

*And they married each other.”*

**How can this be?**



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## 19 – More Funny Sums

### The Twins

They were born in March which is a town in Cambridgeshire, England.

When one was 30 the other was 30 **too**.

And they were either vicars or registrars of marriage.



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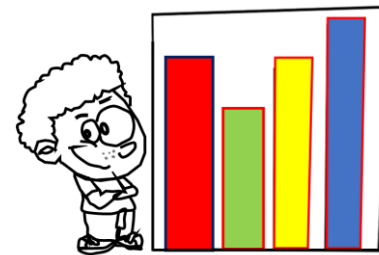
## 19 – More Funny Sums

### Funny Sum

$A+B+C = A \times B \times C = D$     What is the value of D?

I'll do algebra, I'll do trigonometry. I'll even do statistics.

But I draw the line with graphs!!





# Sums. The're Math Magic

## 19 – More Funny Sums

### Funny Sum

$$A+B+C = A \times B \times C = D$$

D = 6 or -6 because the only answers for the sum are:

$$1 + 2 + 3 = 1 \times 2 \times 3 = 6$$

$$-1 - 2 - 3 = -1 \times -2 \times -3 = -6$$

How many degrees has Circle?

None – he never went to university!



Oxford



Cambridge

# Sums. The're Math Magic

## 19 – More Funny Sums

**Minus 40 = Minus 40?**

**Can you prove that -40 is the same as -40 if  $0 = 32$ ?**

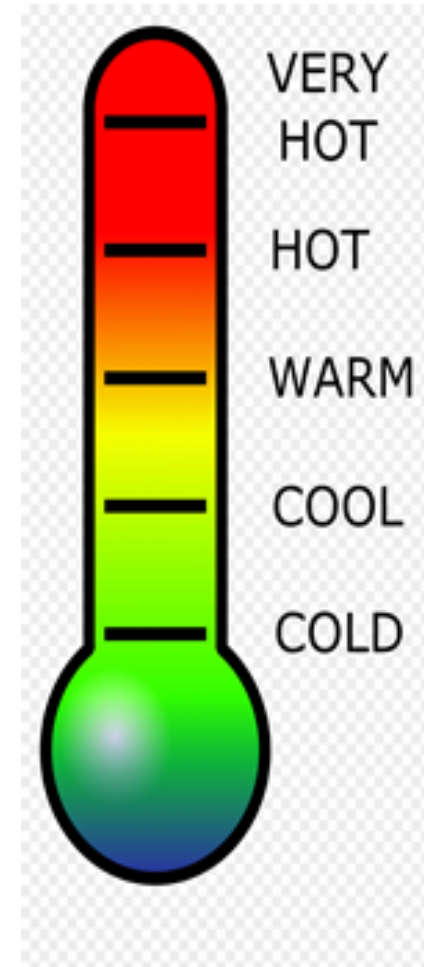
# Sums. They're Math Magic

## 19 – More Funny Sums

**Minus 40 = Minus 40?**

**Can you prove that -40 is the same as -40 if  $0 = 32$ ?**

Clue



# Sums. The're Math Magic

## 19 – More Funny Sums

**Minus 40 = Minus 40?**

**We know that  $0^{\circ}\text{C} = 32^{\circ}\text{F}$  as the freezing pint of water.**

**Its boiling point is  $100^{\circ}\text{C} = 212$ .**

**So  $1^{\circ}\text{C} = 9/5^{\circ}\text{F}$**

**So  $-40^{\circ}\text{C} = -40 \times 9/5 + 32^{\circ}\text{F}$**

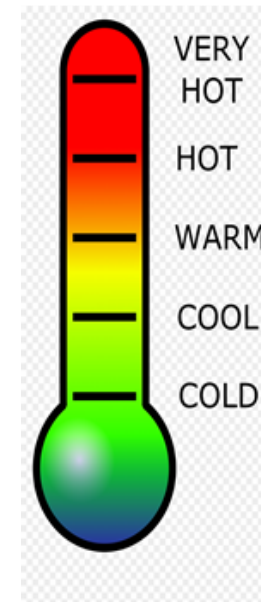
$$= -360/5 + 32^{\circ}\text{F}$$

$$= -72 + 32^{\circ}\text{F}$$

$$= -40^{\circ}\text{F}$$

**So  $-40^{\circ}\text{C} = -40^{\circ}\text{F}$**

Clue



**A very good way to convert Fahrenheit to Centigrade is**

$$5 \times (\text{DegF} + 40) = 9 \times (\text{DegC} + 40)$$

# Sums. They're Math Magic

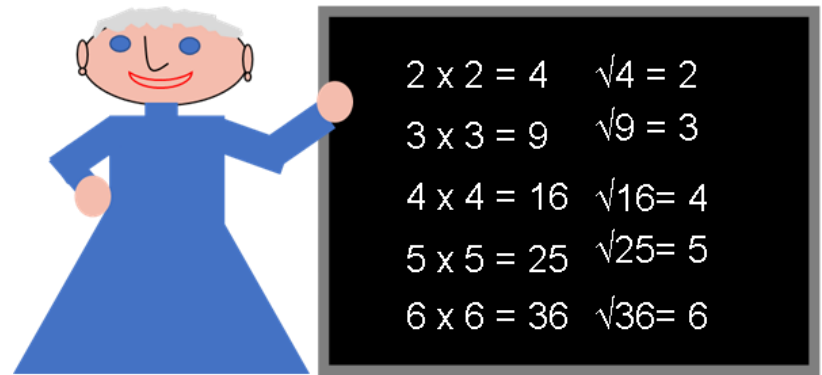
## 19 – More Funny Sums

**Maths Teachers are Very Old**

**The year is MMXX**

**If the teacher was born in MCMLXXVI**

**How old is she?**



# Sums. They're Math Magic

## 19 – More Funny Sums

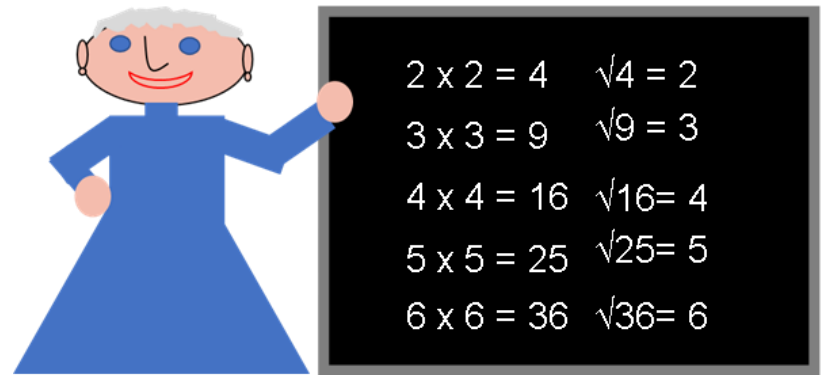
**Maths Teachers are Very Old**

**The year is MMXX**

**If the teacher was born in MCMLXXVI**

**How old is she?**

**She is XLIV years old!**



$$2 \times 2 = 4 \quad \sqrt{4} = 2$$

$$3 \times 3 = 9 \quad \sqrt{9} = 3$$

$$4 \times 4 = 16 \quad \sqrt{16} = 4$$

$$5 \times 5 = 25 \quad \sqrt{25} = 5$$

$$6 \times 6 = 36 \quad \sqrt{36} = 6$$

# Sums. They're Math Magic

## 19 – More Funny Sums

### Always 37

Chose a three-digit number where all the digits are the same, e.g. 777

Add the digits together, e.g.  $7+7+7 = 21$

Divide the larger number by the smaller one, e.g.  $777 / 21$

The answer is 37

**Please prove this.**



**And it is my Birthday !!**

# Sums. They're Math Magic

## 19 – More Funny Sums

### Always 37

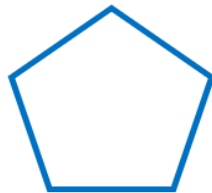
Chose a three-digit number where all the digits are the same, use  $AAA = 100A + 10A + A$

Add the digits together, e.g.  $A + A + A = 3A$

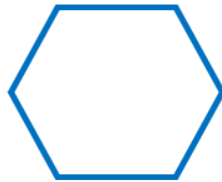
Divide the larger number by the smaller one,  
 $(100A + 10A + A) / 3A = 111 / 3$

The answer is always 37

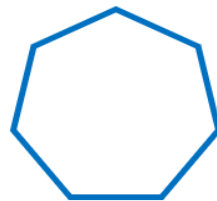
Name the shape?



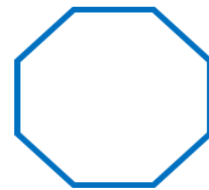
Pentagon



Hexagon



Heptagon



Octagon



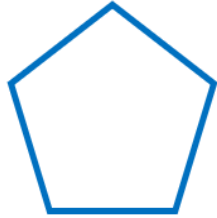
?



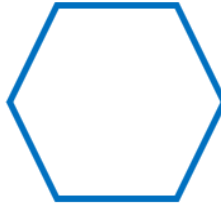
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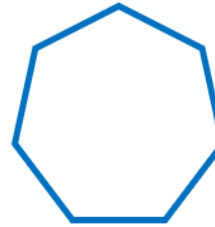
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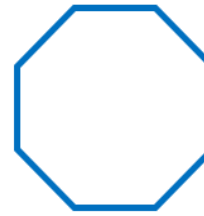
Pentagon



Hexagon



Heptagon



Octagon



Oregon USA

**Sums. They're Math Magic**

**19 – More Funny Sums**

**Please go to the next lesson.**

**More Geometry**