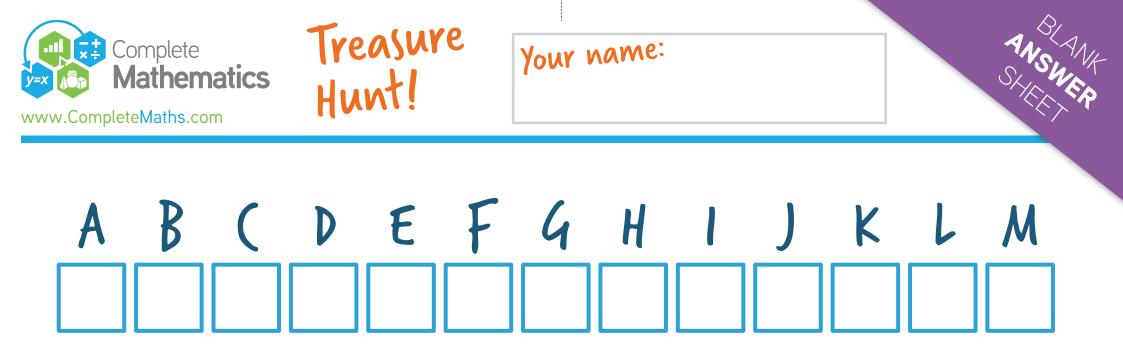
### #MATHSCONF Treasure Hunts All the treasure hunts from our MathsConfs in one document.

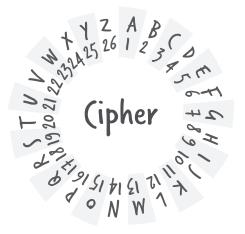


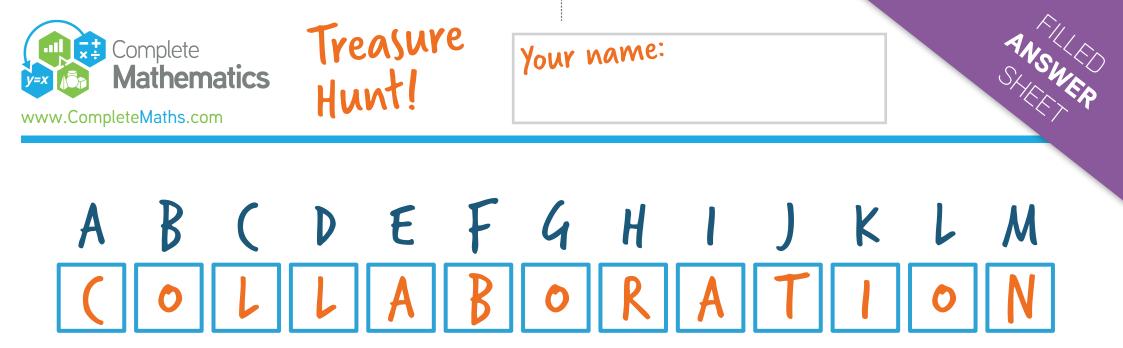
Work out the answers to the maths problems.

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Maths Conf2





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Maths Confe





Maths Conf2

### $A = \sqrt{9}$

### Mathematics. Solved.



Maths Conf2



### 1155cm<sup>2</sup>

### Bcm

### Mathematics. Solved.



Maths Conf2

## $C^2 + 30 = 54$

### Mathematics. Solved.



Maths Confra

## Volume of the cube is 1728m<sup>3</sup>.

### **D** = length of side

Mathematics. Solved



Mains Conf2

## $E = (i^2)^2$

### Mathematics. Solved.

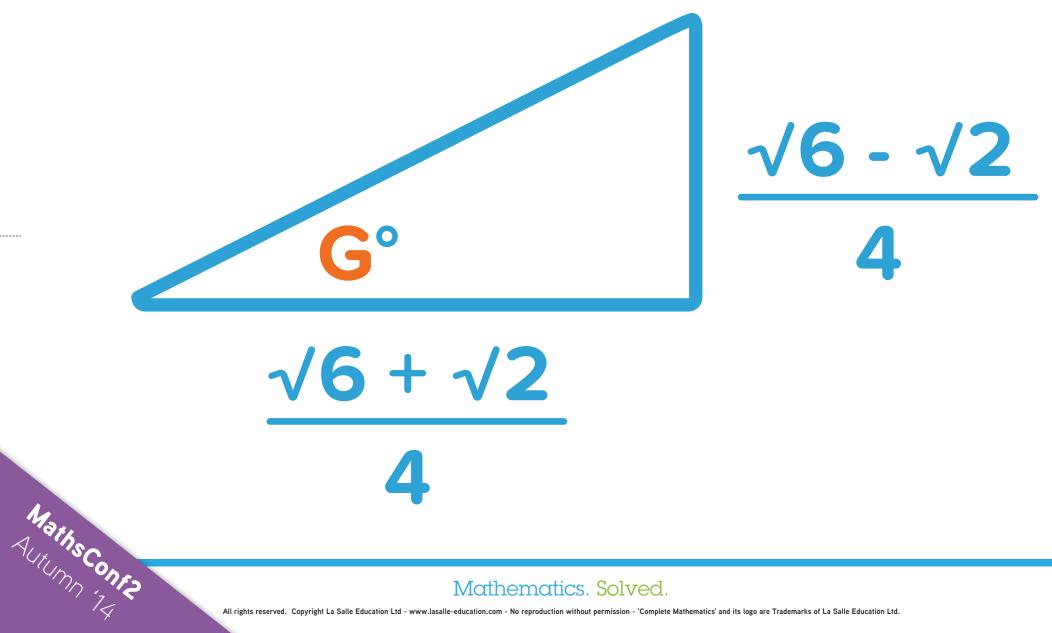


Marhs Conf2

### **F** = the first prime number







### Mathematics. Solved.



Maths Conf2

### H is the angle formed at the centre by one number region on a dartboard.

Mathematics. Solved.



Marhs Conre

### l is the number of edges on a möbius strip.

Mathematics. Solved



Marhs Conre

### J is the number of sides on an icosagon.

Mathematics. Solved



Maths Conre

### $K = \sqrt{10^{th} \text{ prime x 3 - 6}}$

Mathematics. Solved.



Marhs Conre

### L is the 5<sup>th</sup> triangular number (ignoring zero)

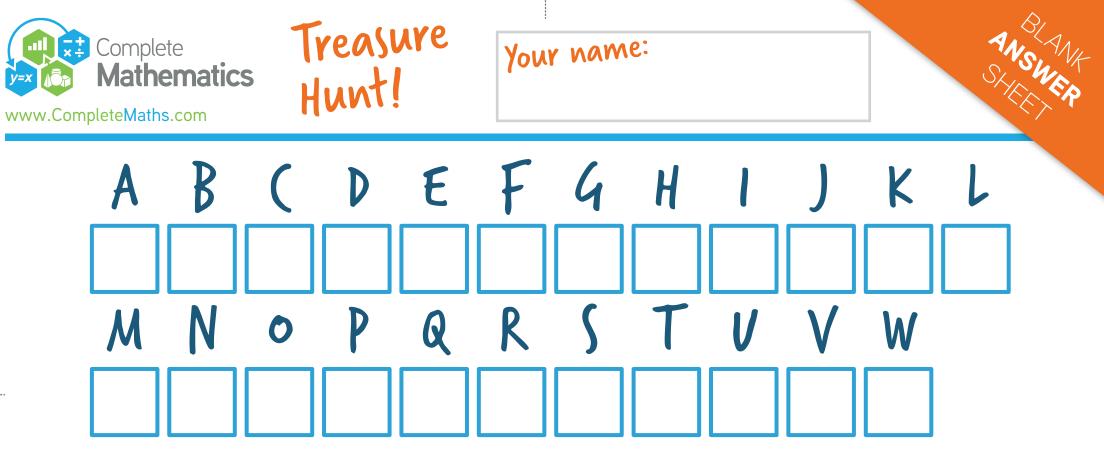
Mathematics. Solved



Marhs Conre

### M = 700 ÷ total faces on the platonic solids

Mathematics. Solved



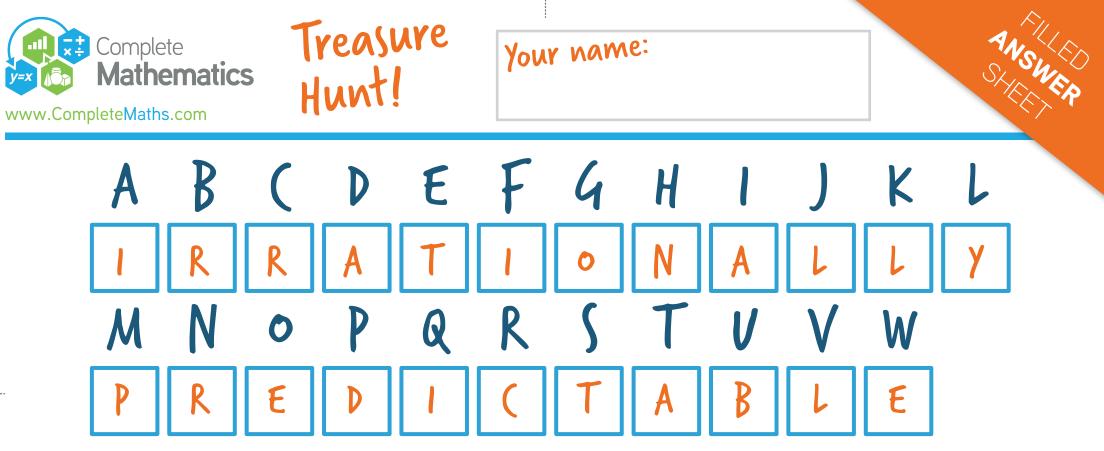
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Marhs Confis

×18192021224 5 (iphe



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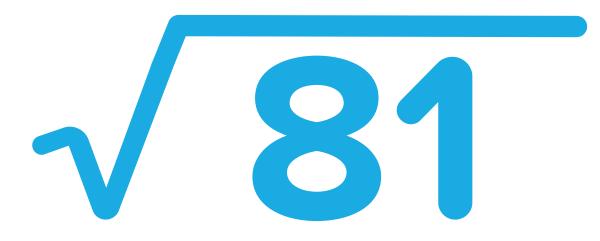
Marhs Confis

P 1 1 2 2 1 2 2 4 (Iphel



Maths ConF3





### Mathematics. Solved.



Mains Confis

## $(11-7)^2 + {}^3\sqrt{8}$

### Mathematics. Solved



Maths Conf3

### What is 3 the area of the shape?



C

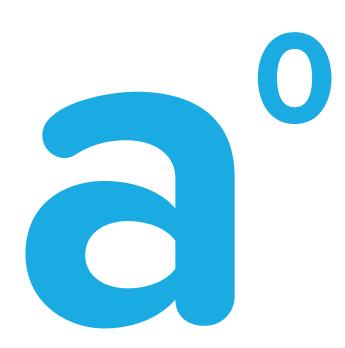
5

### Mathematics. Solved.



Maths Contra





### Mathematics. Solved.



Maths Conf3





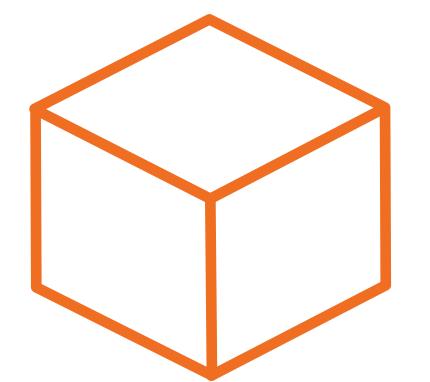
### When x = 5

### Mathematics. Solved.



Maths Conra





### Cube Volume = 729 Side = ?

### Mathematics. Solved.



Maths Config



### $6^2 - 3^3 - 12$

### Mathematics. Solved.



Maths Conf3



## Tetradecagon has how many sides?





Maths Conf3



### (15 × 2) - (3 × 8) - 5





Maths Conf3



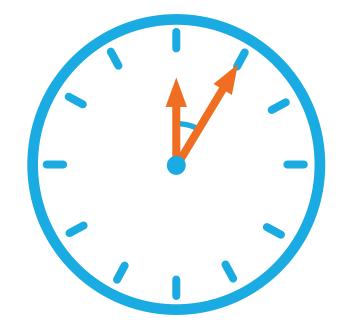
## The Number of Days of Christmas.





Marhs Conra





### **Degress in 20mins**

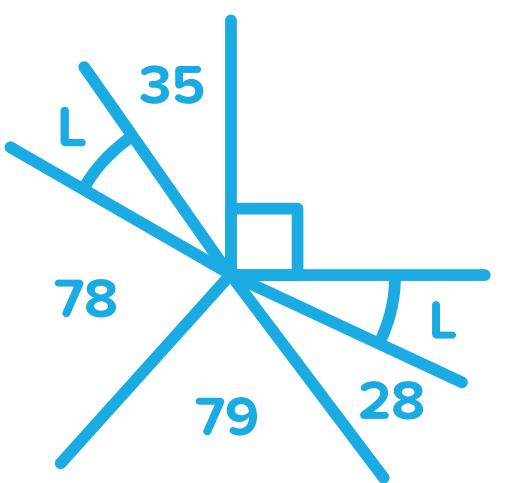
### (Baker's Dozen - 3)

### Mathematics. Solved.



.....

Maths Conf3



### Mathematics. Solved.



Maths Conf3



### The number of ounces (oz) in a pound (lb)

Mathematics. Solved



Maths Conf3

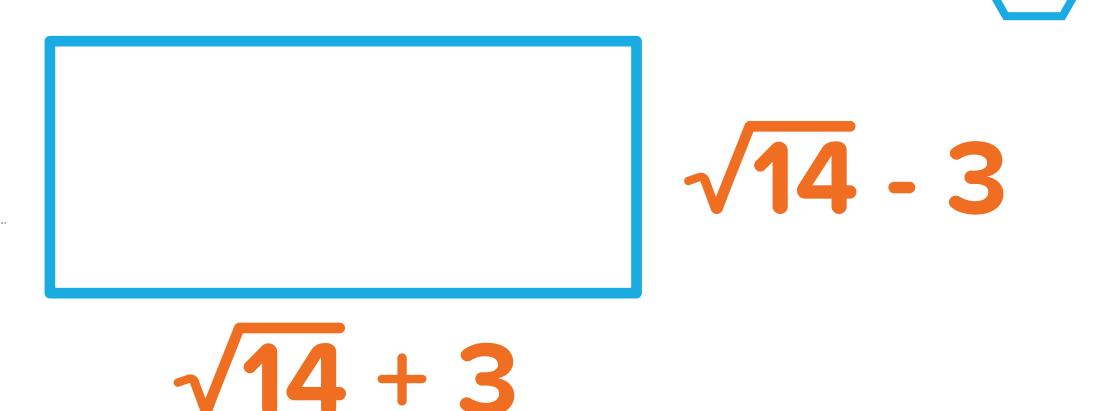




### Mathematics. Solved.



Maths Conf3



### Mathematics. Solved.

**Area = ?** 



Maths Conf3



### The binary number 100 is what in base 10?

Mathematics. Solved



Maths Confis



### degrees in a circle

### sides in a tetracontagon





Maths Conf3



# Is the magic number

Mathematics. Solved



Maths Conra

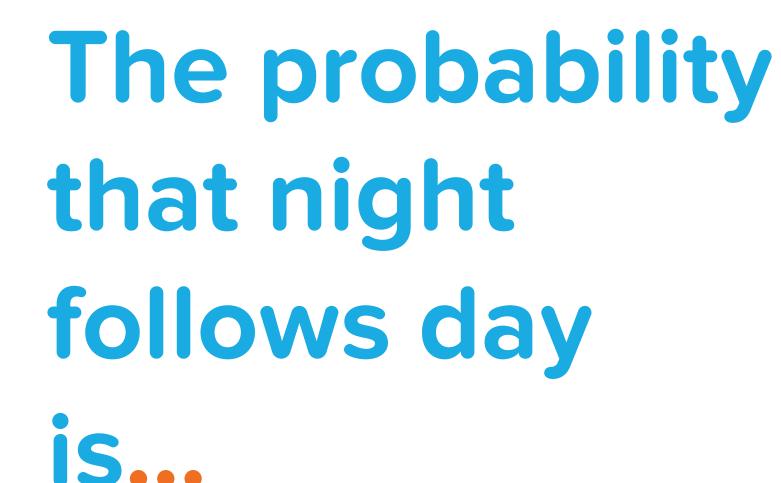


### Sum of the first four triangular numbers

Mathematics. Solved.



Maths Confis

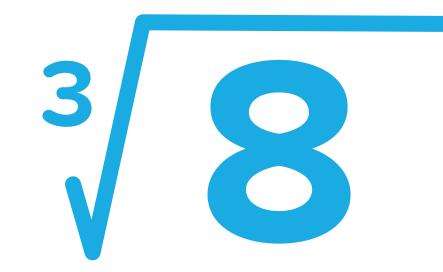


### Mathematics. Solved



Maths Conf3





### Mathematics. Solved.



Maths Conf3

What is the area of the shape?

### Mathematics. Solved.

8

3

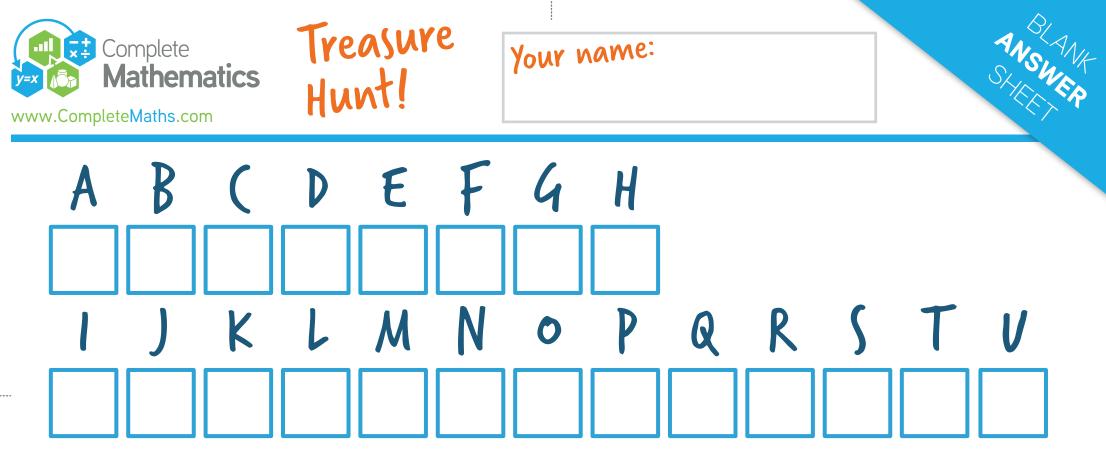


Maths Config



### **V5th Square Number**





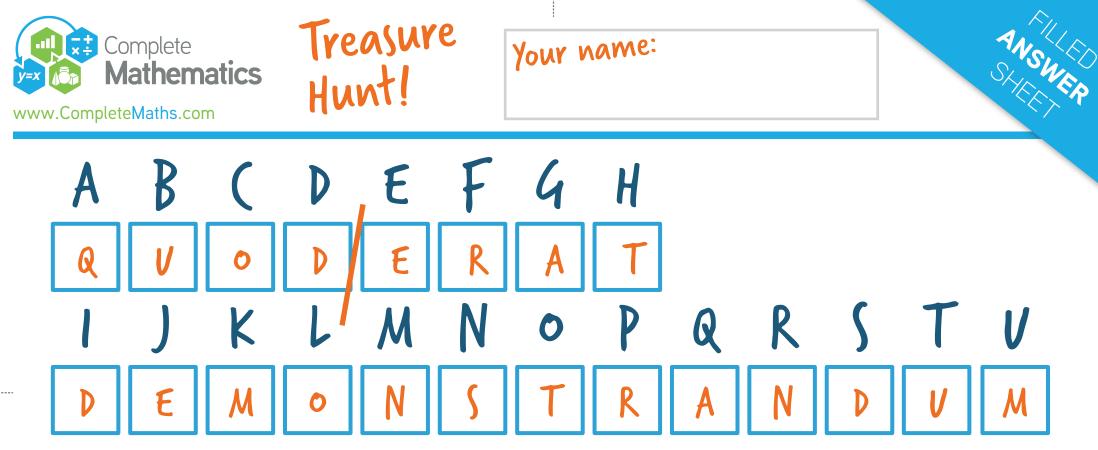
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Maths Confe

4 19 20 21 22 -5 (Iphel



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Maths Confe

819202122 5 (Iphel



Marhs Confe





### Mathematics. Solved



Marhs Conre





### Mathematics. Solved.



Marns Conres



### The fifth triangular number

Mathematics. Solved



Marns Conre



# 3/12/5 + e<sup>iπ</sup>

### Mathematics. Solved.



Maths Confe



### The number ot Platonic Solids

Mathematics. Solved



Maths Confe

### Sum of angles around a point (in degrees)

# Sum of first 4 triangular numbers

Mathematics. Solved.



Maths Confe





### Mathematics. Solved.



Maths Conre



### Number of faces on an icosahedron



### Mathematics. Solved



Marhs Confe



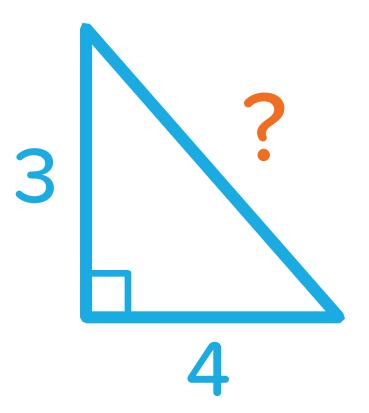
# 27 - 25

### Mathematics. Solved.



Maths Confe





### Mathematics. Solved.



Maths Confe



### Number of cards in a suit

Mathematics. Solved



Marns Confg







### Mathematics. Solved



Maths Confe



### $1^2 + 2^2 + 3^2$





Maths Confe



### The 7<sup>th</sup> Mersenne prime exponent

Mathematics. Solved



Maths Confe



### Number of sectors on a dart board

Mathematics. Solved



Maths Conre Summer 15



? <u>1</u> <u>108</u> 6

### Mathematics. Solved.



Marhs Conre

# Number of lines of symetry in this (

Mathematics. Solved



Maths Confe



# Number of pounds in a

stone

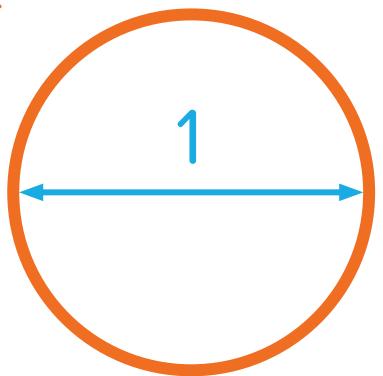
Mathematics. Solved



Maths Confe



### Area of this circle



S

### Mathematics. Solved



Maths Confe

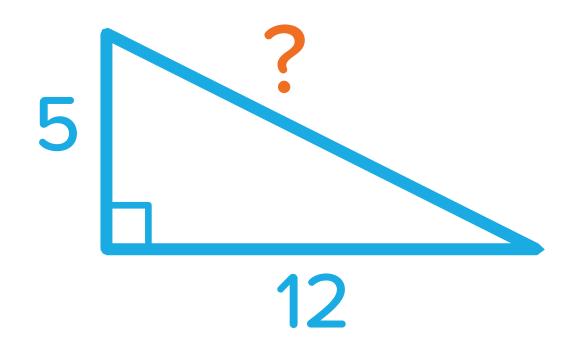
## Total number of dots on a standard die

Mathematics. Solved.

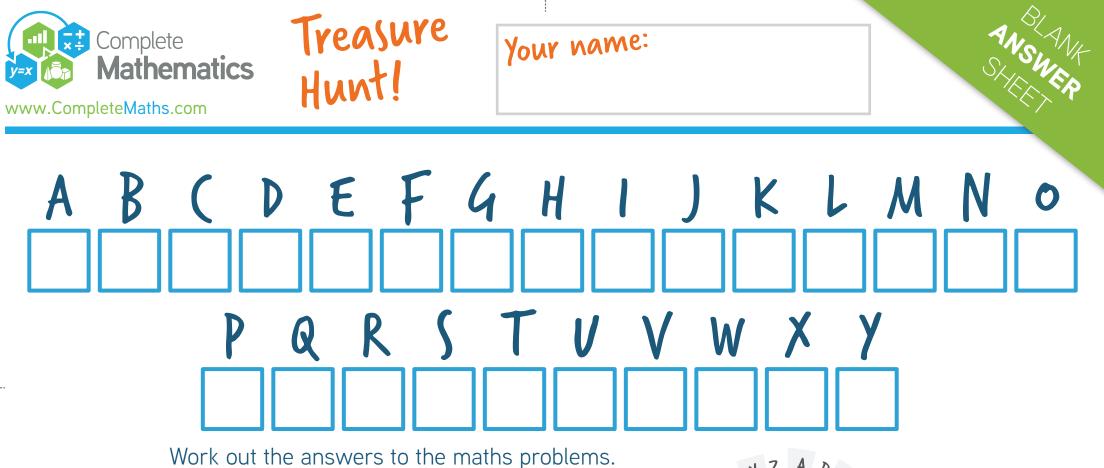


Maths Confe





### Mathematics. Solved.



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Maths Confs

F 19202122 5 (iphei

Treasure Complete Your name: **Mathematics** Hunt! www.CompleteMaths.com H D E 4 Б  $\square$ Q Work out the answers to the maths problems.

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Maths Confs

19 20 21 22 (iphe



Marhs Conrs



### Total number of unique nets of a cube

Mathematics. Solved.



Maths Confs



# $\frac{B}{6} = \frac{2\frac{1}{3}}{3}$

### What is **B**?

### Mathematics. Solved.



Marhs Conrs





### Mathematics. Solved.



Maths Confs



### 10 + ¬ Number of hours + 1 in a week

### Mathematics. Solved.



Marhs Conrs



### Number of signs of the zodiac





MarhsConrs



# The number of olympic rings

Mathematics. Solved.



Mains Confis



# $16\left(\frac{8^2}{2^8}\right)$

#### Mathematics. Solved.



MarhsConfs Autumn 15





#### Mathematics. Solved.



Marhs Conrs



### 5<sup>th</sup> Fibonacci number (starting at 1)





Maths Confs



### The formula for this sequence: -2, 3, 8, 13, ... is **Jn - 7** What is J?

Mathematics. Solved.



Maths Confs Autumn 15





#### Mathematics. Solved.



Maths Confs



### The number of symphonies written by Beethoven

Mathematics. Solved



Maths Confs

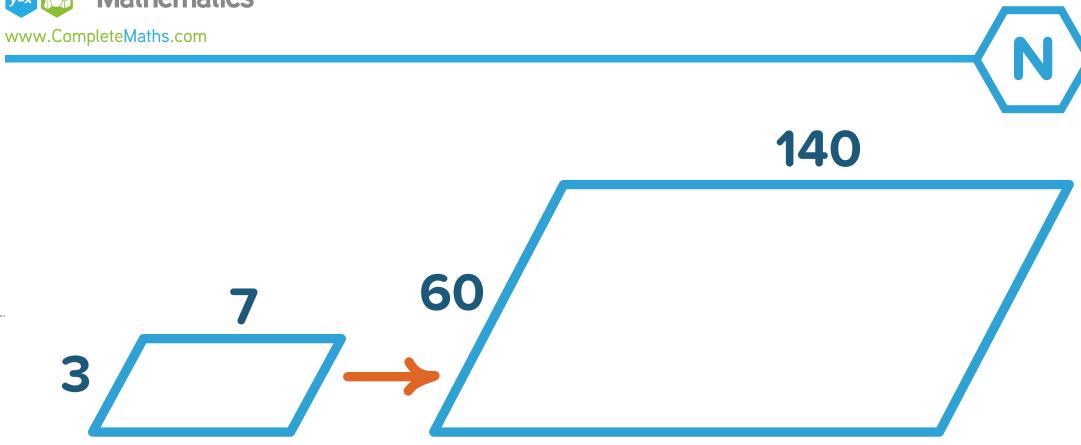


### $11 \times M = 209$

### What is M?

Mathematics. Solved.





### What is the scalefactor? Maths Confs

#### Mathematics, Solved.



Maths Confs





#### Diameter Οπ

### What is O?

#### Mathematics. Solved.



12

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Mains Confs



Ρ

### 16 What is **P**?

#### Mathematics. Solved.



Maths Conrs

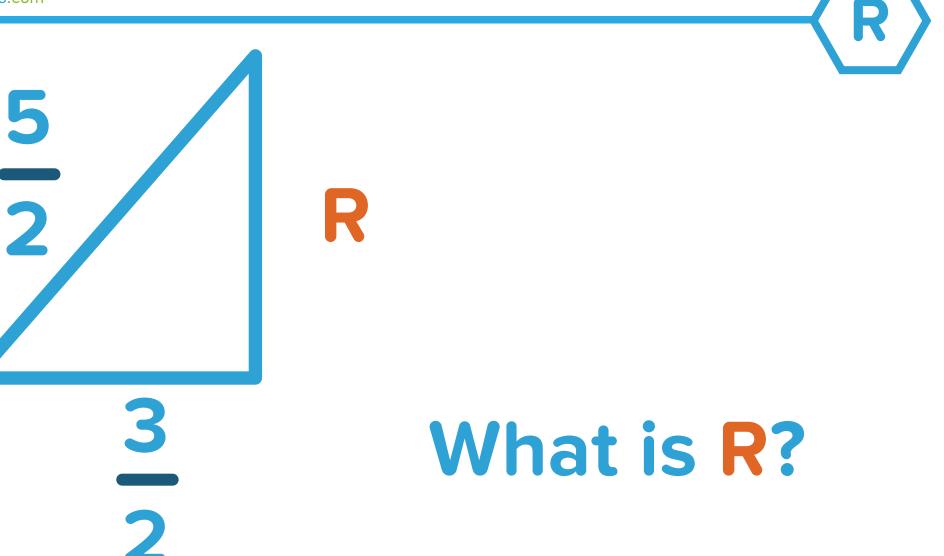


### The 5<sup>th</sup> Triangular Number

Mathematics. Solved.



Maths Confs



#### Mathematics. Solved.



Maths Confs



#### Number of players in a rugby union team

#### Number of players in the front row





Maths Confs



# $\frac{38}{\sin 5\pi} = \frac{T}{\frac{\sin \pi}{6}}$

### What is T?

Mathematics. Solved.



Maths Conrs



### Number of vertices on a cube





Marhs Confs Autumn 15



### **COS 2π**

#### Mathematics. Solved.



Maths Confs



### What is W?

#### Mathematics. Solved.

36



Maths Confs



### Number of crossings on a pentagram

Mathematics. Solved.



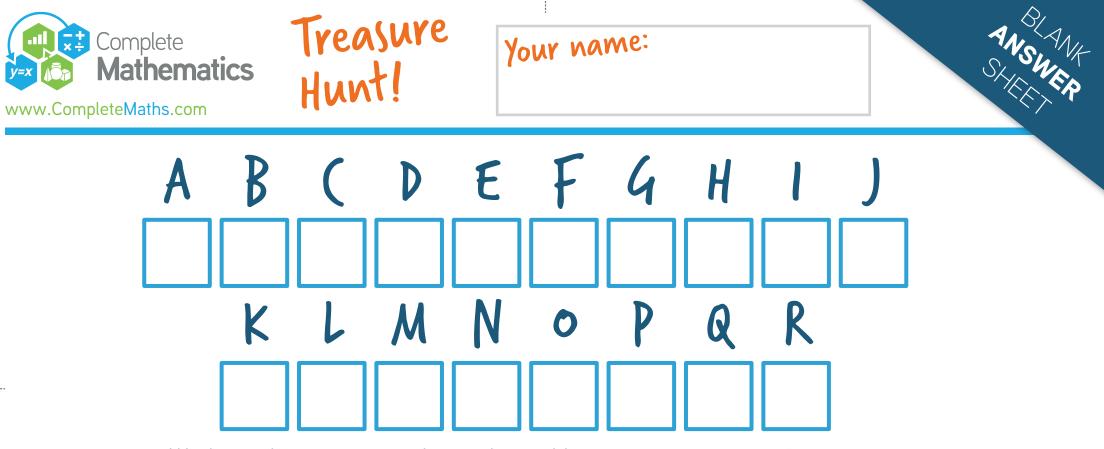
Maths Confs



## $2\sqrt{Y} = 4$

### What is Y?

#### Mathematics. Solved.

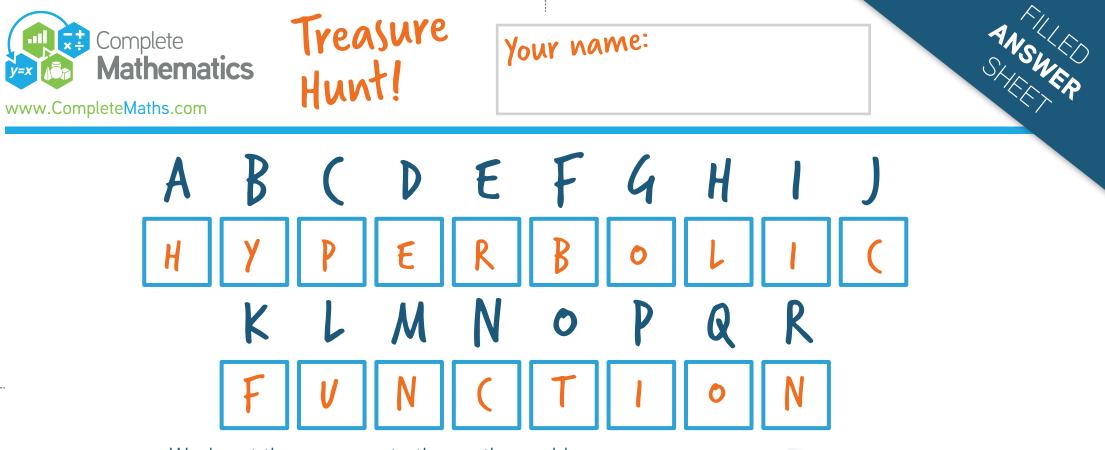


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4 19 20 21 22 -5 (iphe



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P 1 20 21 22 4 (iphe



Marhs Conro



### The 7th number in the Fibonacci sequence

(Starting at 0)

Mathematics. Solved.



## The sum of the first five odd numbers Marhs Conro

Mathematics. Solved.



Maths Confo Soring 76





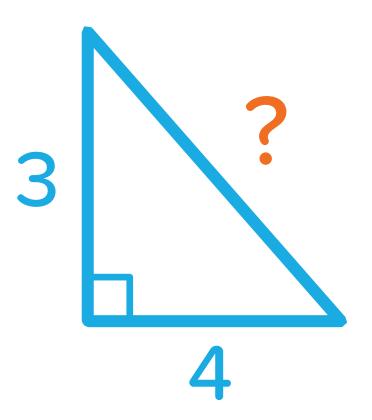
#### Mathematics. Solved.



.....

Maths Conro





#### Mathematics. Solved.



Maths Conro



# Sum of angles on a straight line (In Degrees)

# Sum of first 3 triangular numbers

Mathematics. Solved.



Maths Confo Soring 76



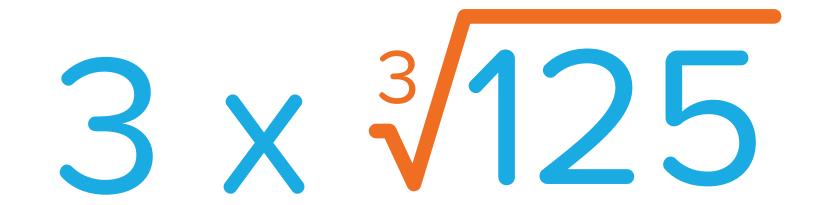
# $\frac{3^2 \cdot 2^3}{3!} \times \frac{3!}{1!}$

#### Mathematics. Solved.



Maths Confo Spring 756





#### Mathematics. Solved.



Marhs Conro



### The number of faces on a dodecahedron

Mathematics. Solved



Maths Confo Soring 756



#### Mathematics. Solved.



Marns Conro



### Number of faces on a cube

### The First Prime Number





Marhs Conro



### Number of edges on a tetrahedron





Maths Conres



? <u>1</u> <u>105</u> 5

#### Mathematics. Solved.



Maths Confo Soring 76



## $1^2 + 2^2 + 3^2$

#### Mathematics. Solved.



Marns Conre



### Number of primary colours





Marhs Conro



5.

#### Mathematics. Solved.



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#### The $5^{th}$ decimal of $\pi$



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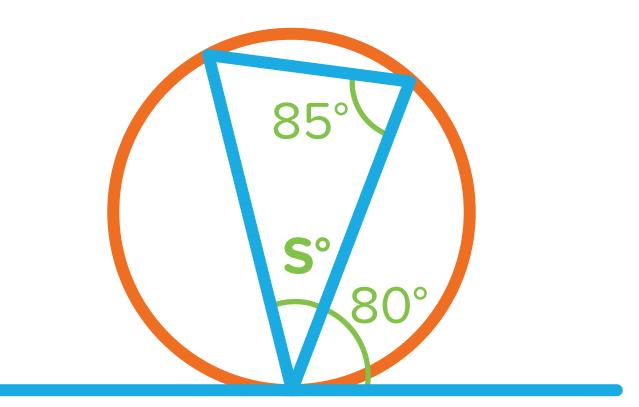


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#### Mathematics. Solved.

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# 23 - 1

0.5

#### Mathematics. Solved.

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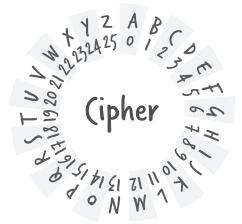


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Maths Conro Inner 75



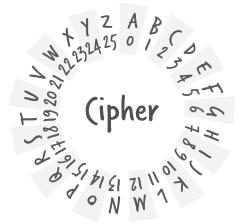


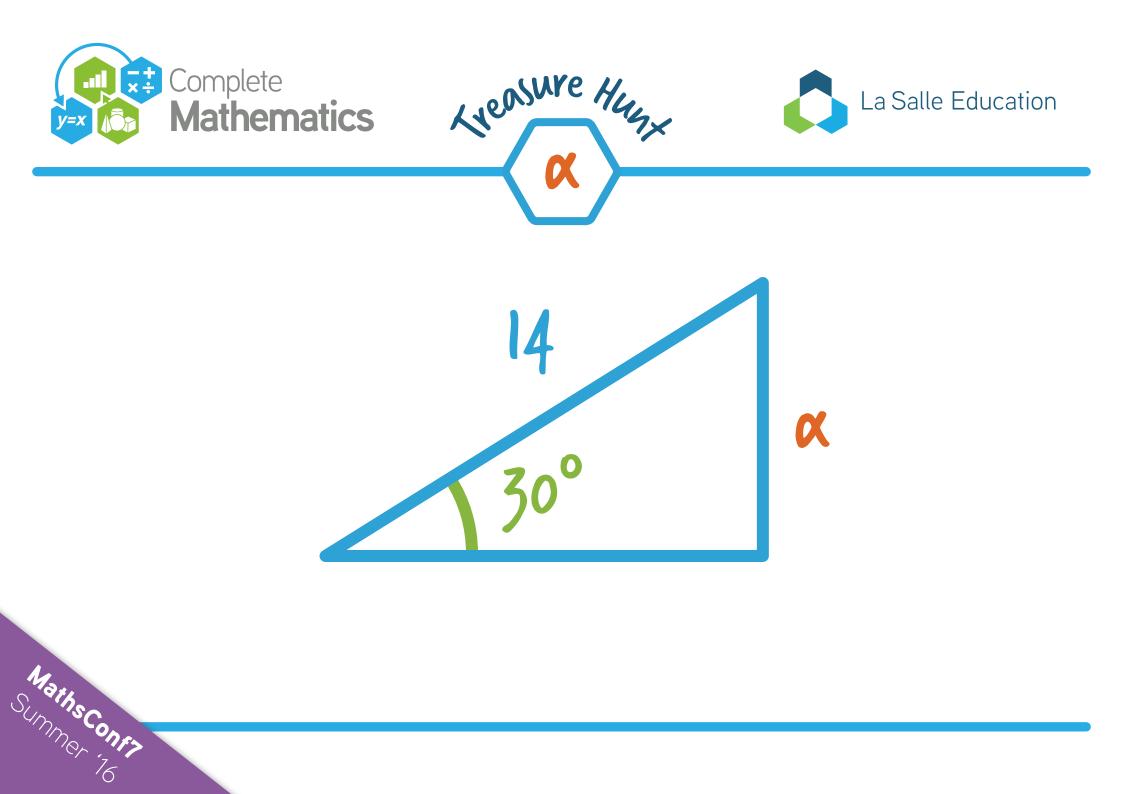
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Maths Conro Inner 75







Maths Confr





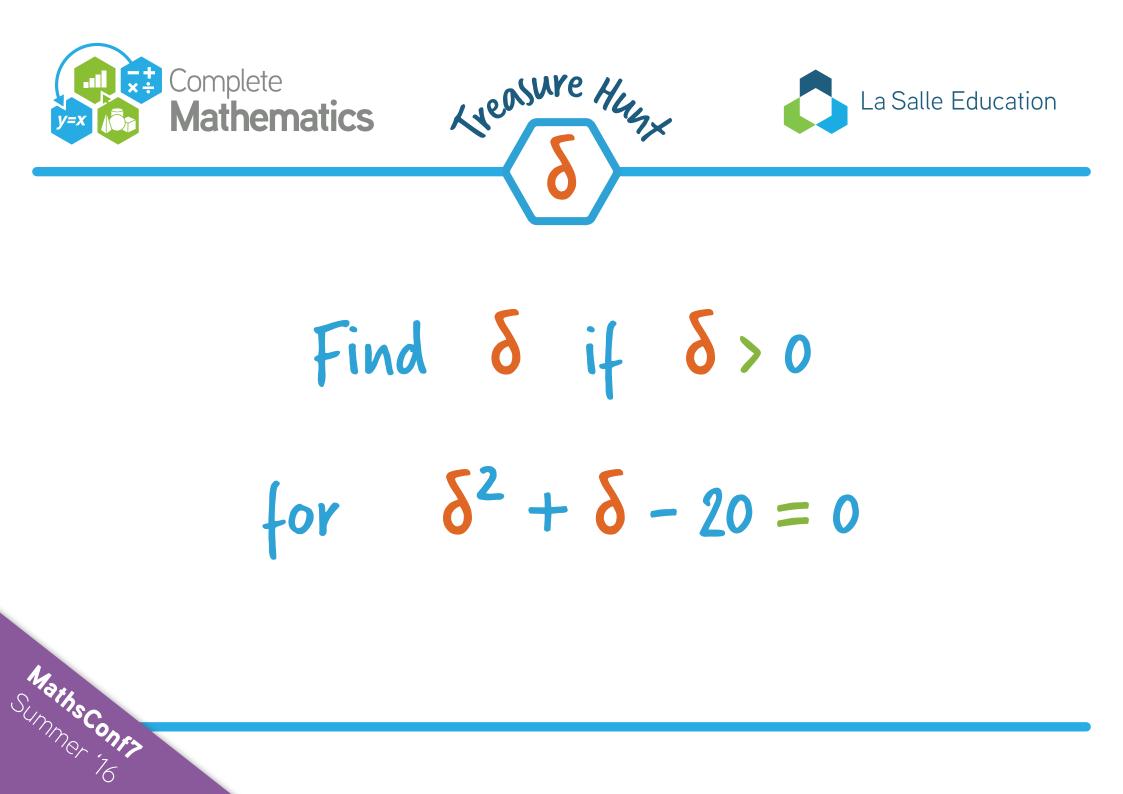
## What is the y coordinate of the intersect of the equations y = 2x and y = -x + 6?

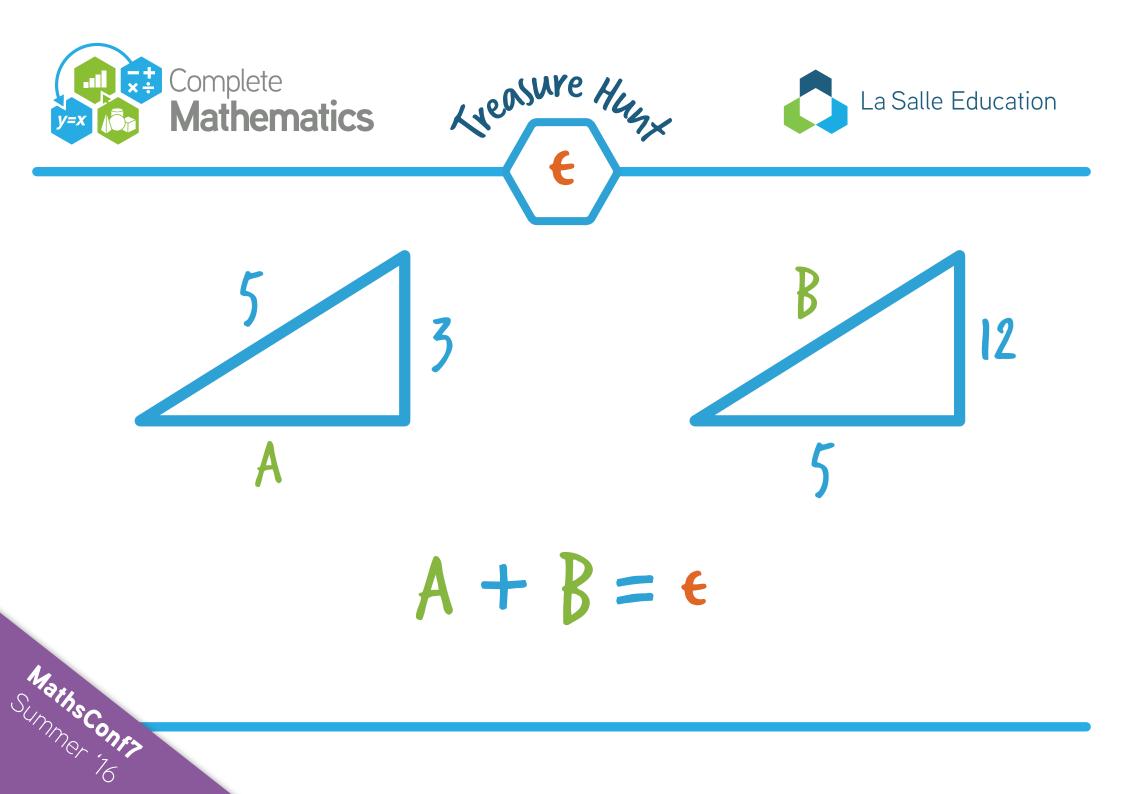


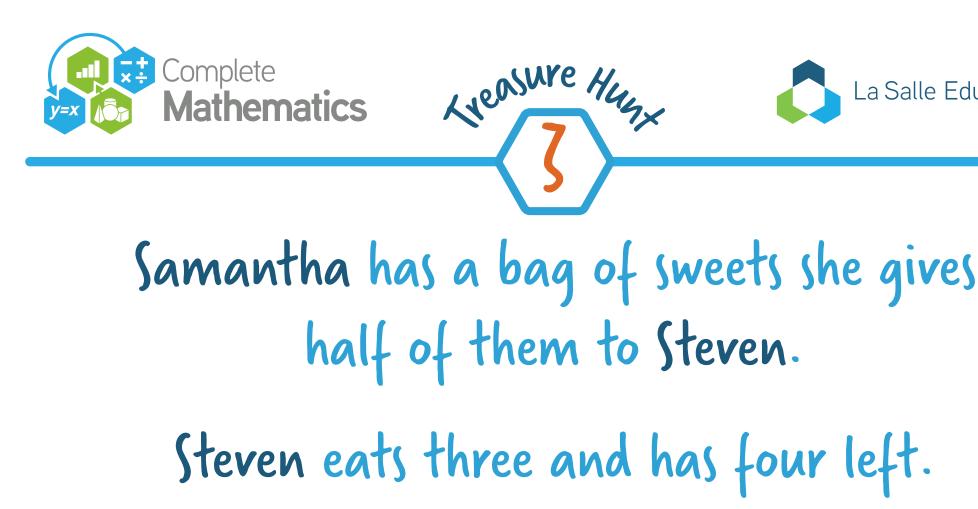
#### $2\gamma^2 + 17\gamma + \gamma^2 - 30 = 15\gamma + 8 + 3\gamma^2$

## Y = ?

Maths Confr Immer 1757



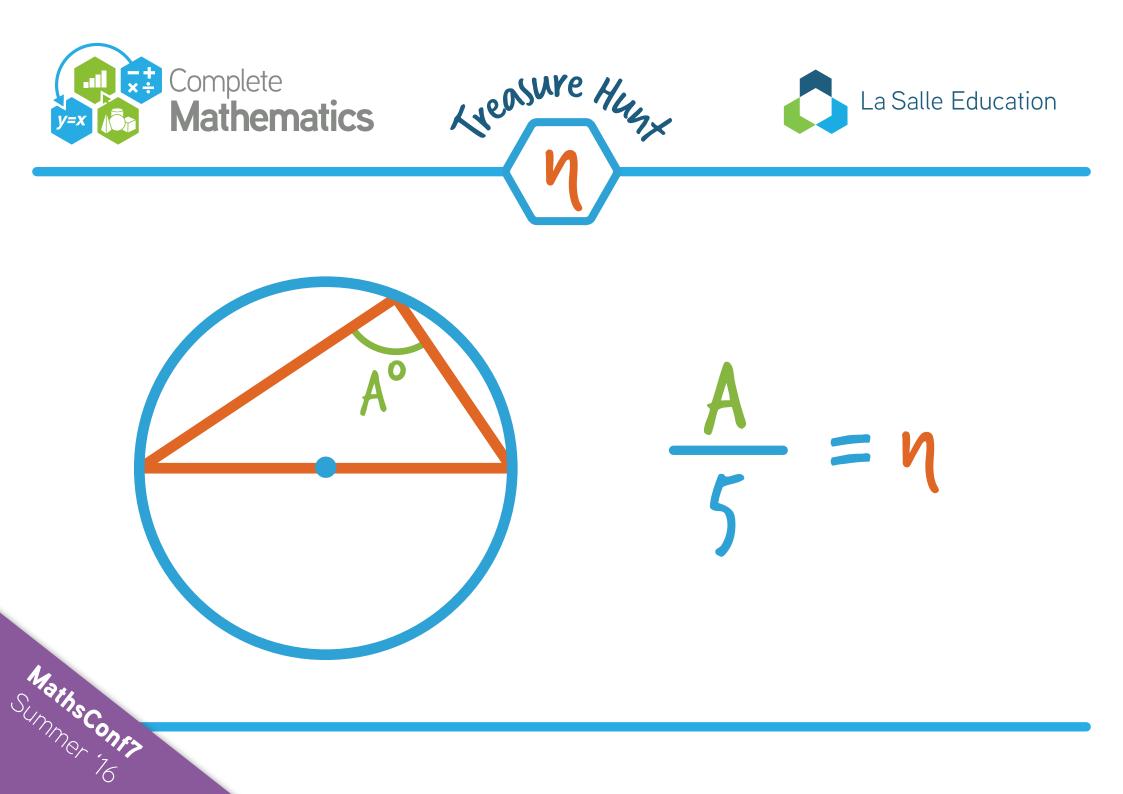


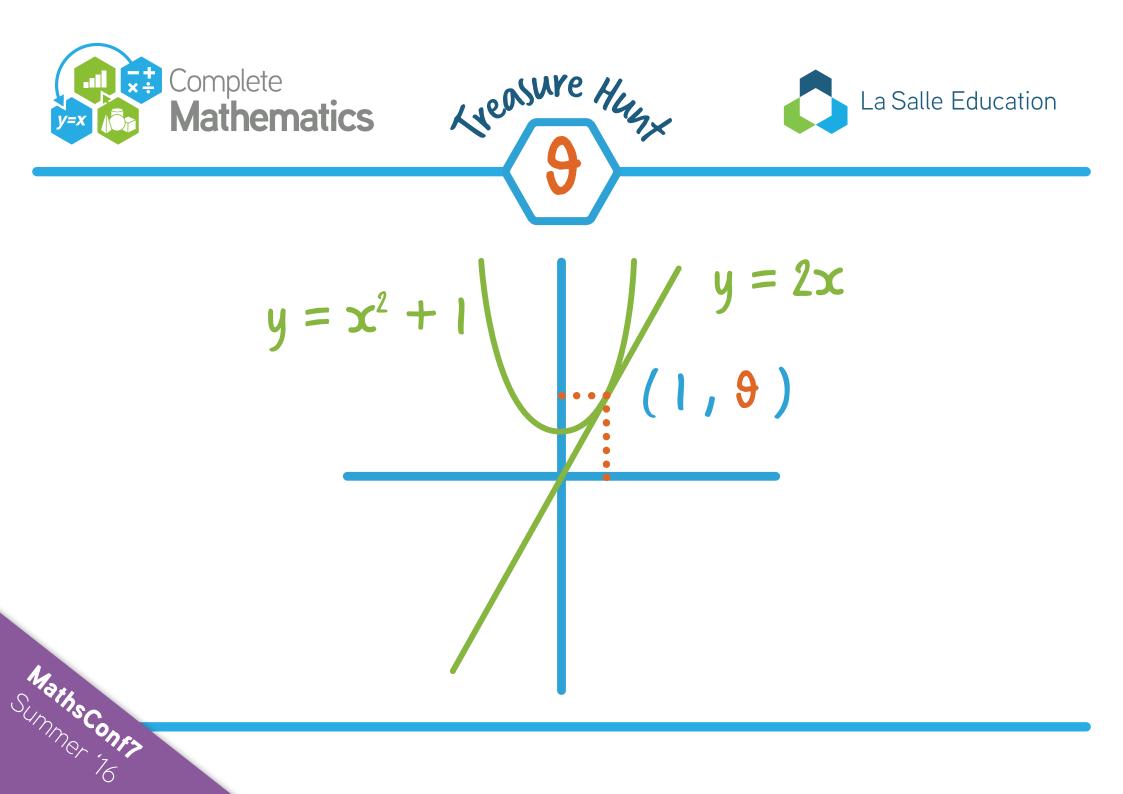


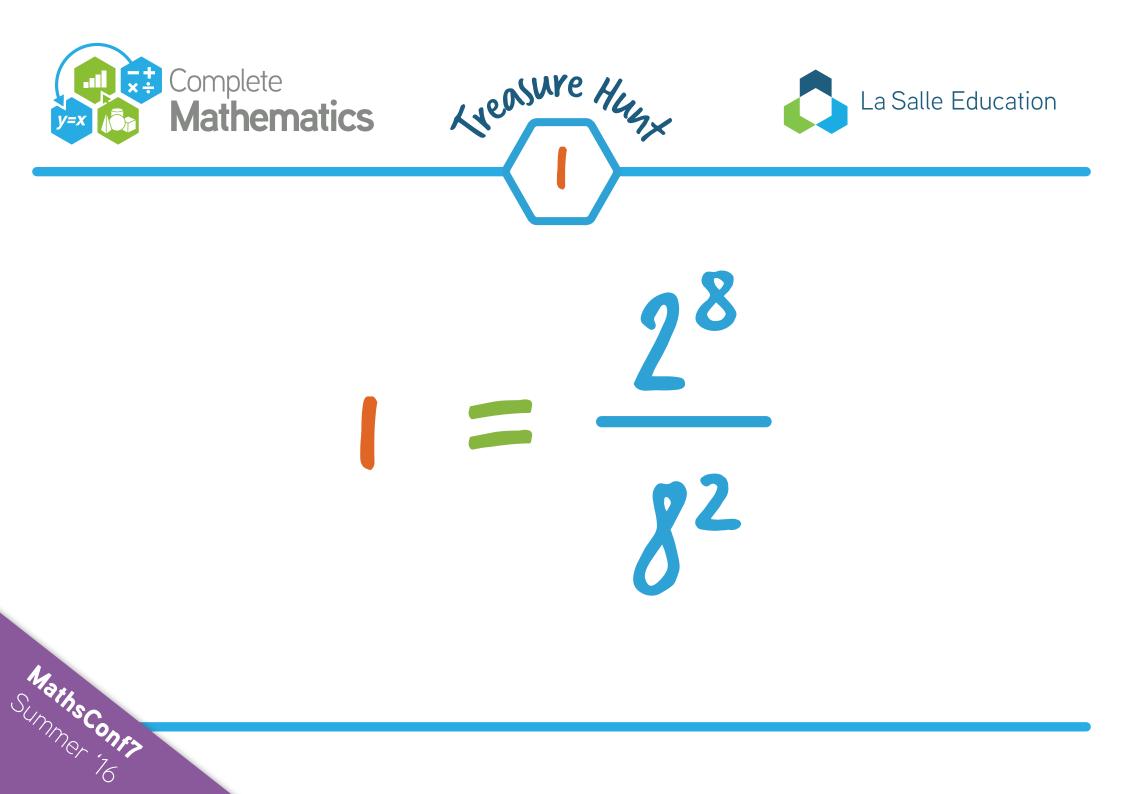
Mathsconr

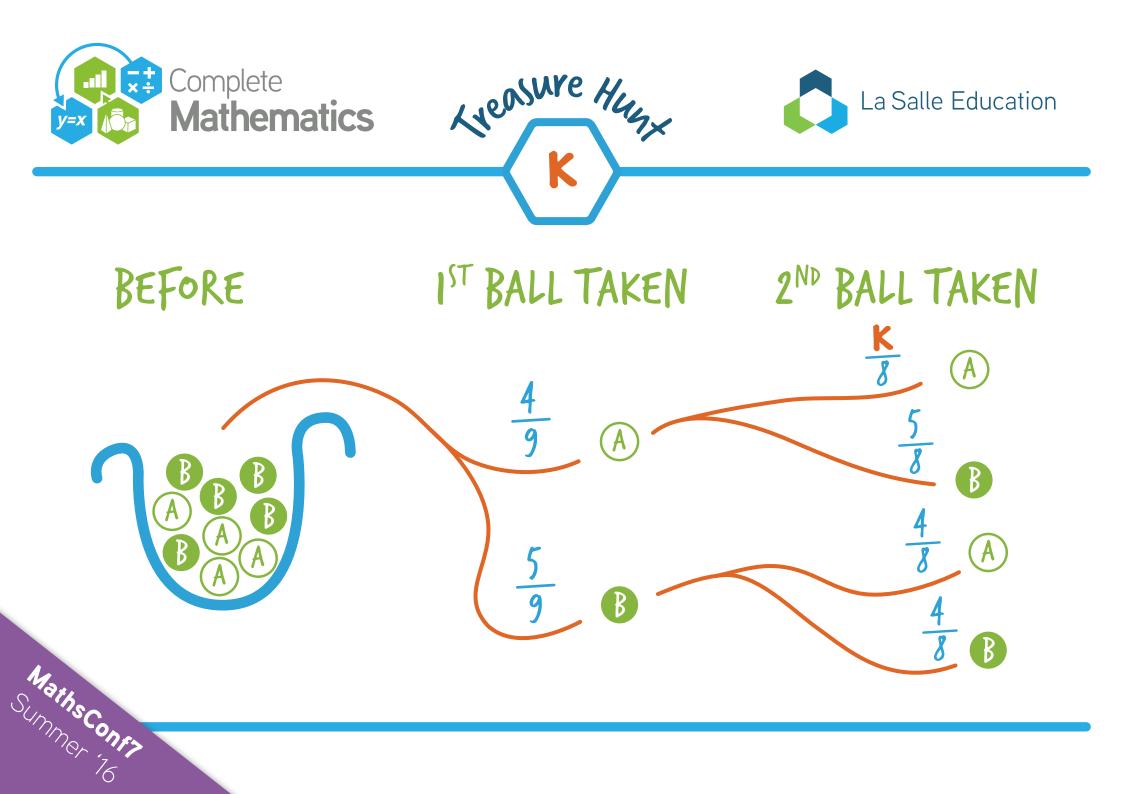
How many sweets did Samantha have to begin with?

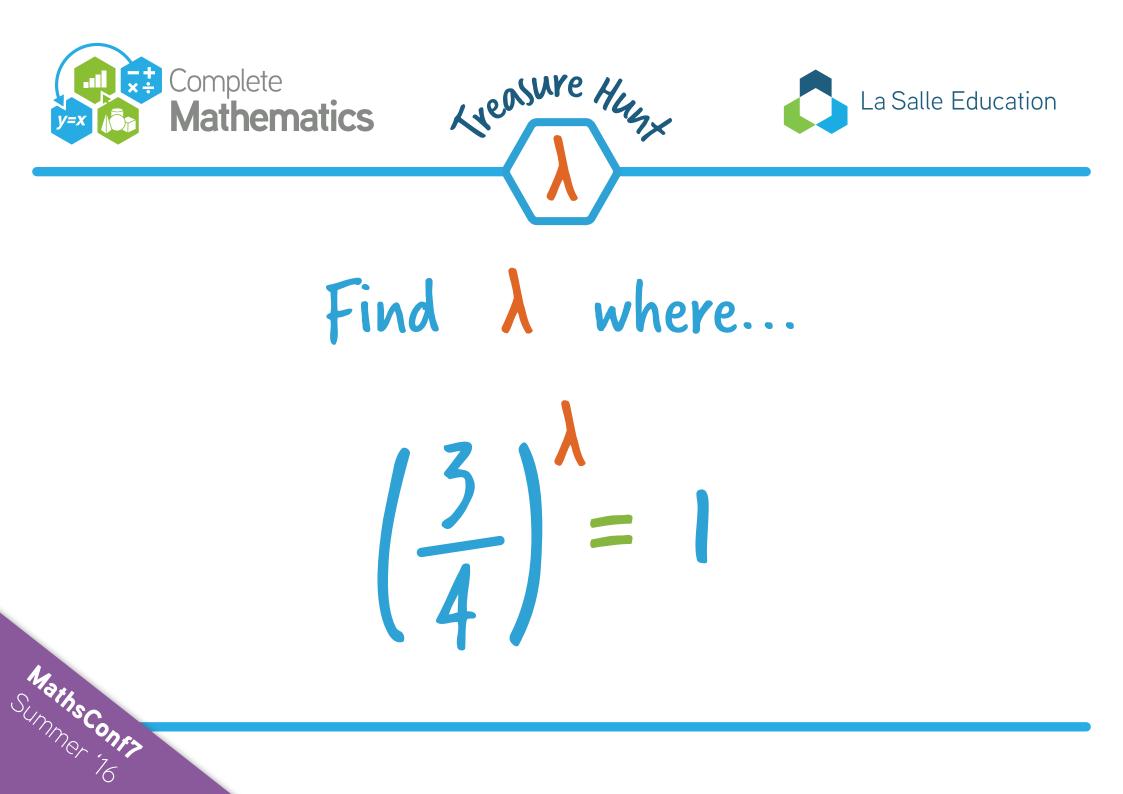
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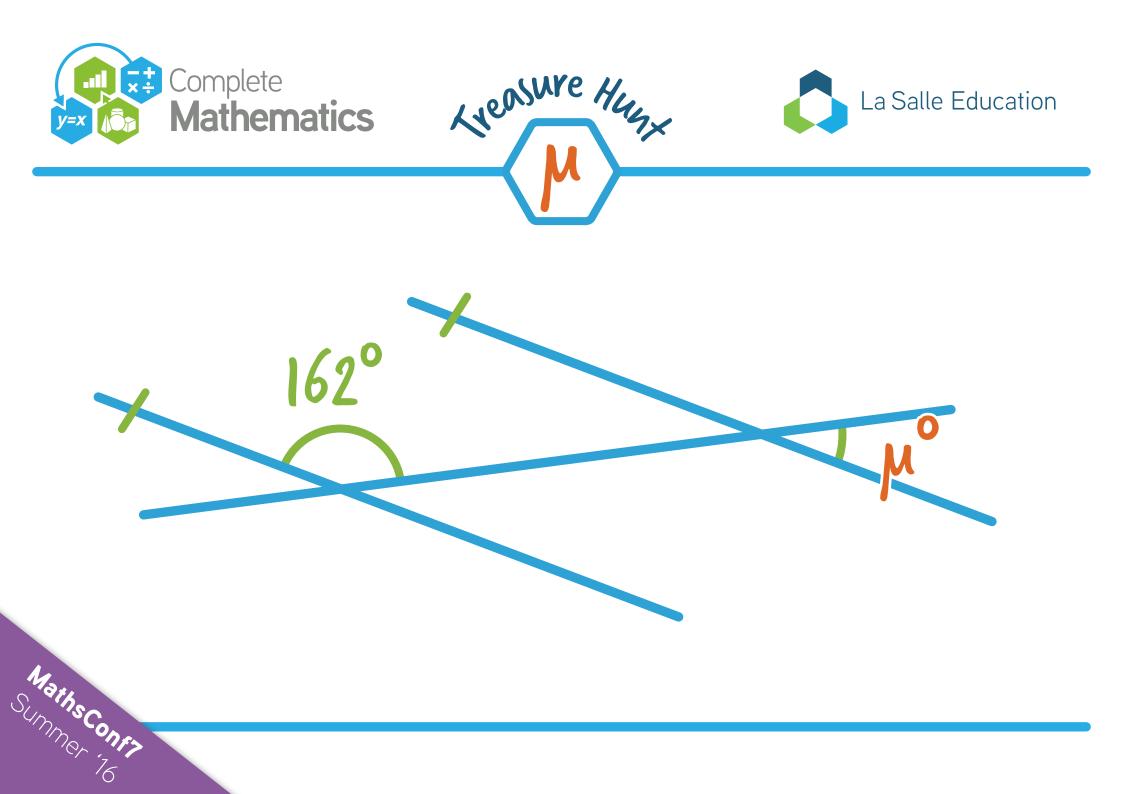


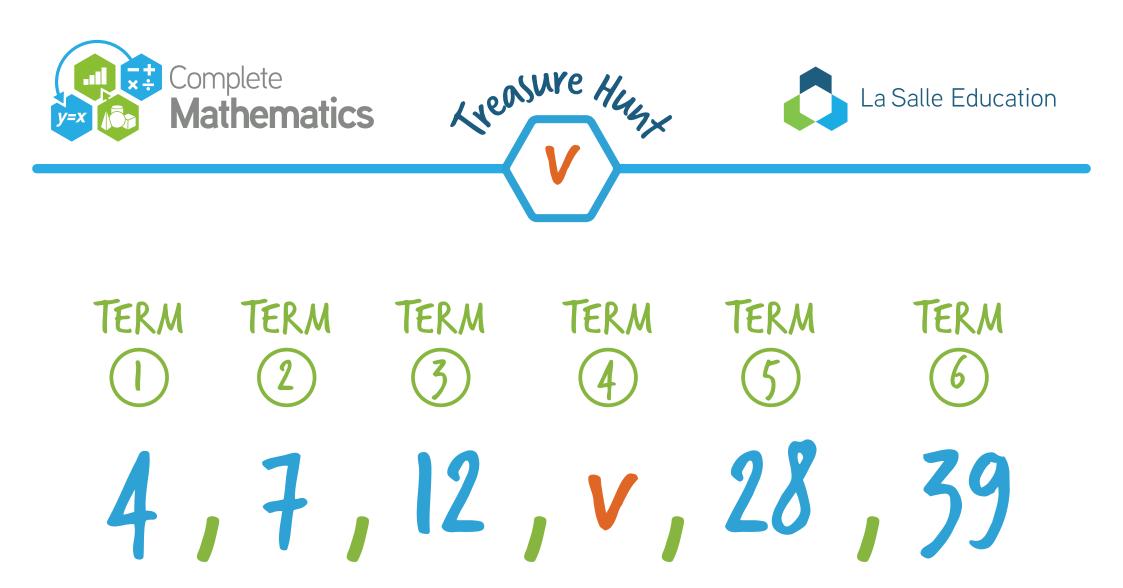












Maths Conro mmer 177



Maths ConFr





#### The 7<sup>th</sup> digit in the Fibonacci Sequence (Starting at 0)



Maths Confr



#### What is the missing prime factor of 36? $36 = 2 \times 3 \times 3 \times 9$



Maths Confr



#### Expand $(1 + 2x)^4$ What is the coefficient of x?

Areasure Hugy



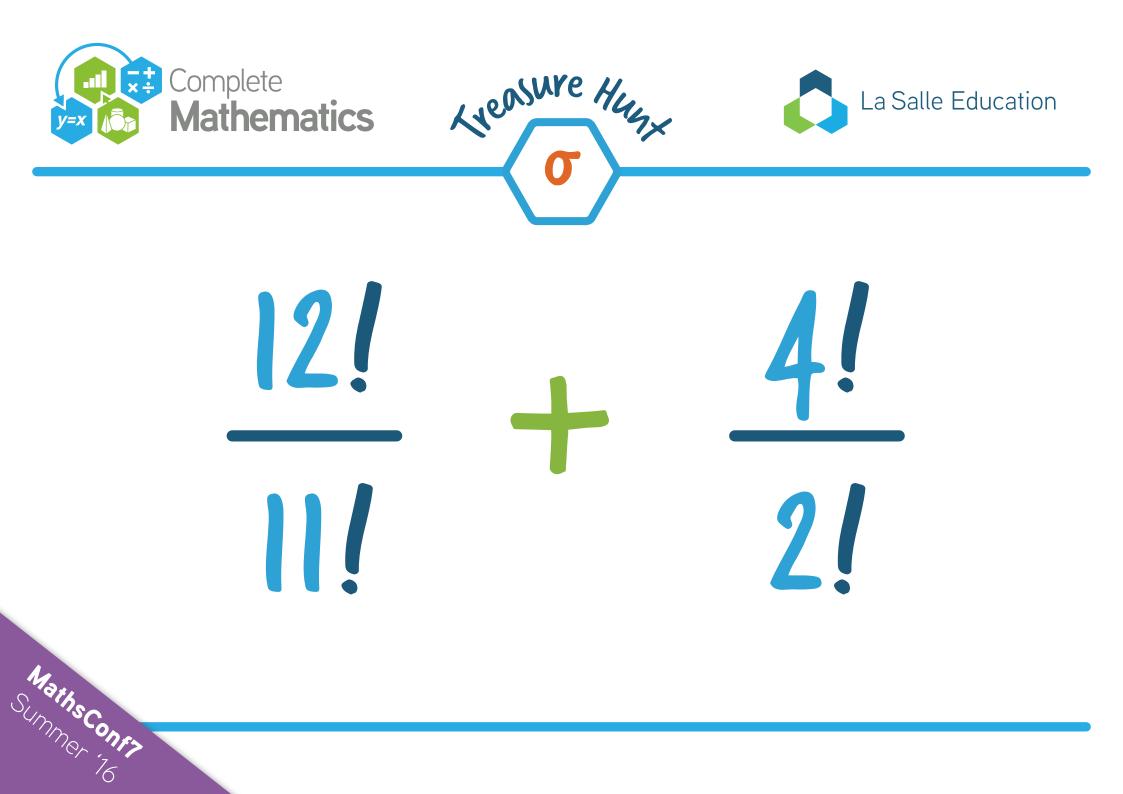


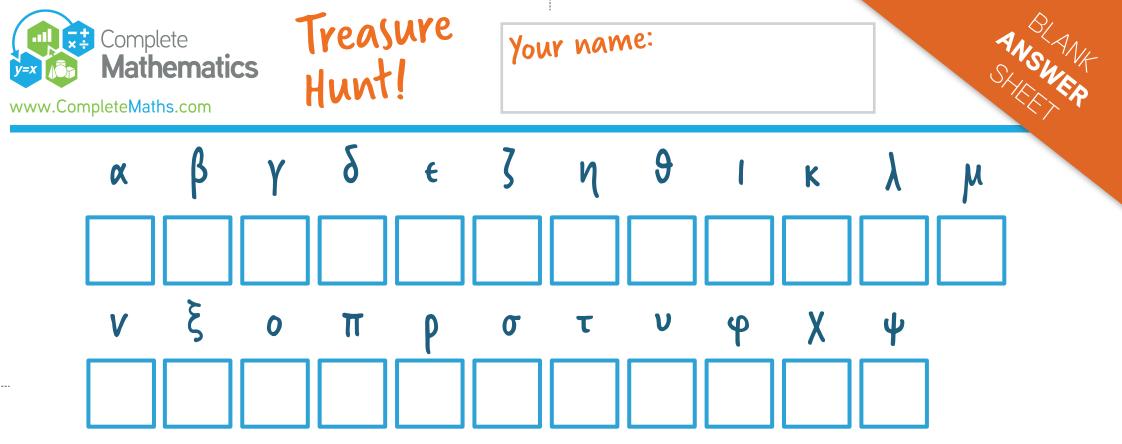


#### Number of days in a leap year

Maths Conro Inner 177

#### Number of Months with 31 days





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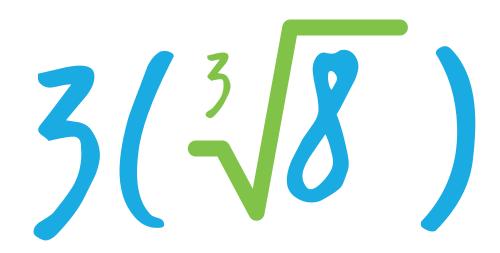
Transpose the solution of the problem to a letter using the cipher (right) and enter it under the appropriate box to reveal the word(s).













Maths Confe





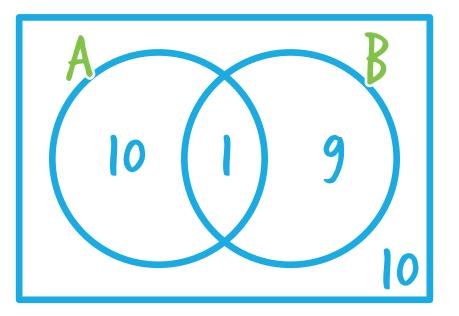
## Number of faces on a tetradecahedron



Maths Conf8





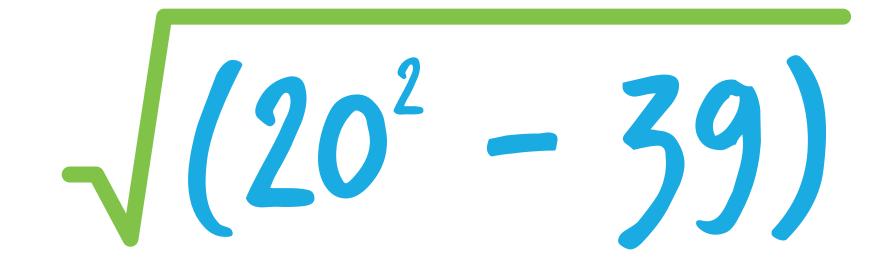


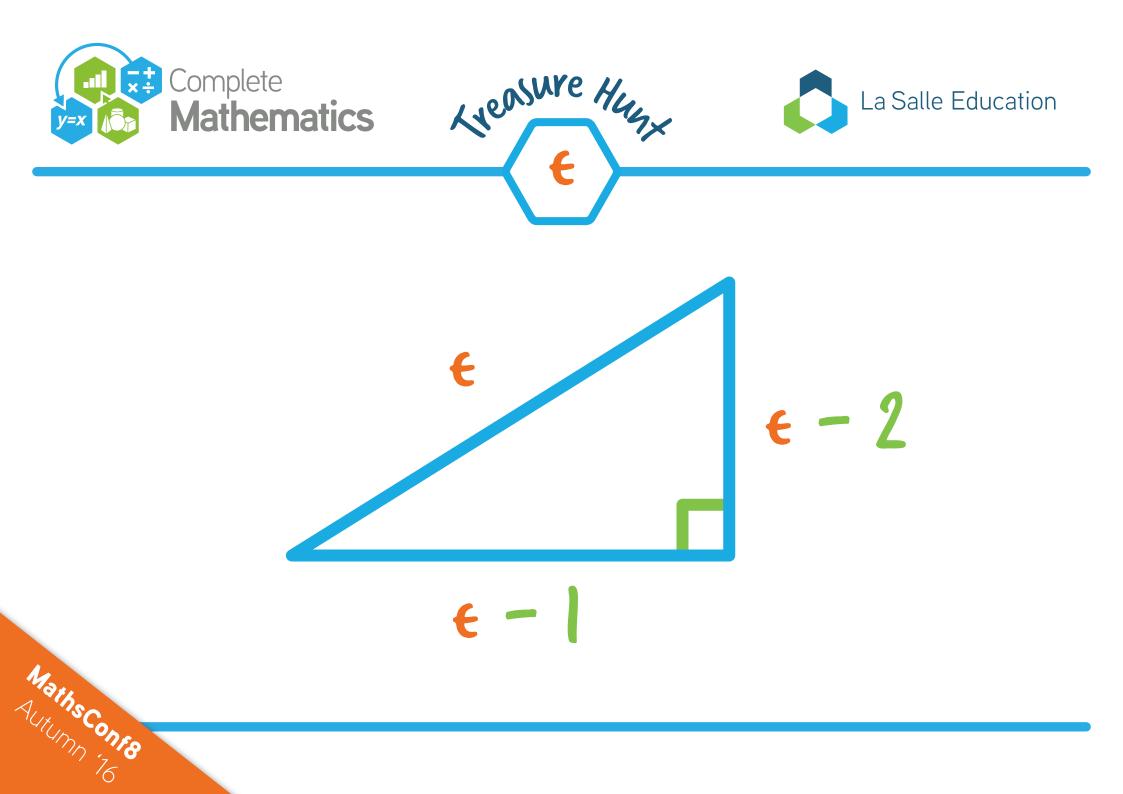
 $P(A') = \frac{\gamma}{30}$ 













Maths Confe





# 23 + 7 = 41



Maths Confe





### The first number which is neither prime nor semiprime



Marhs Conre



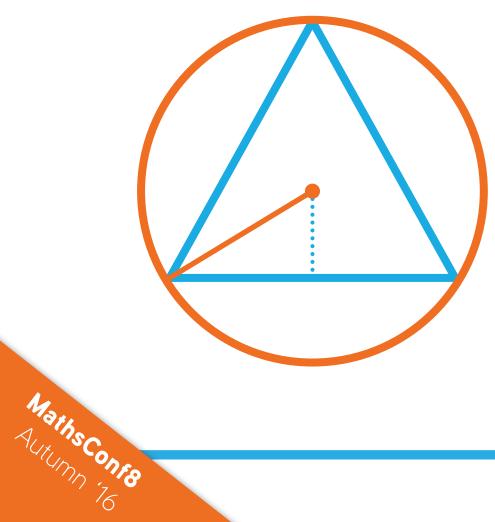


#### (smallest perfect number) - 2

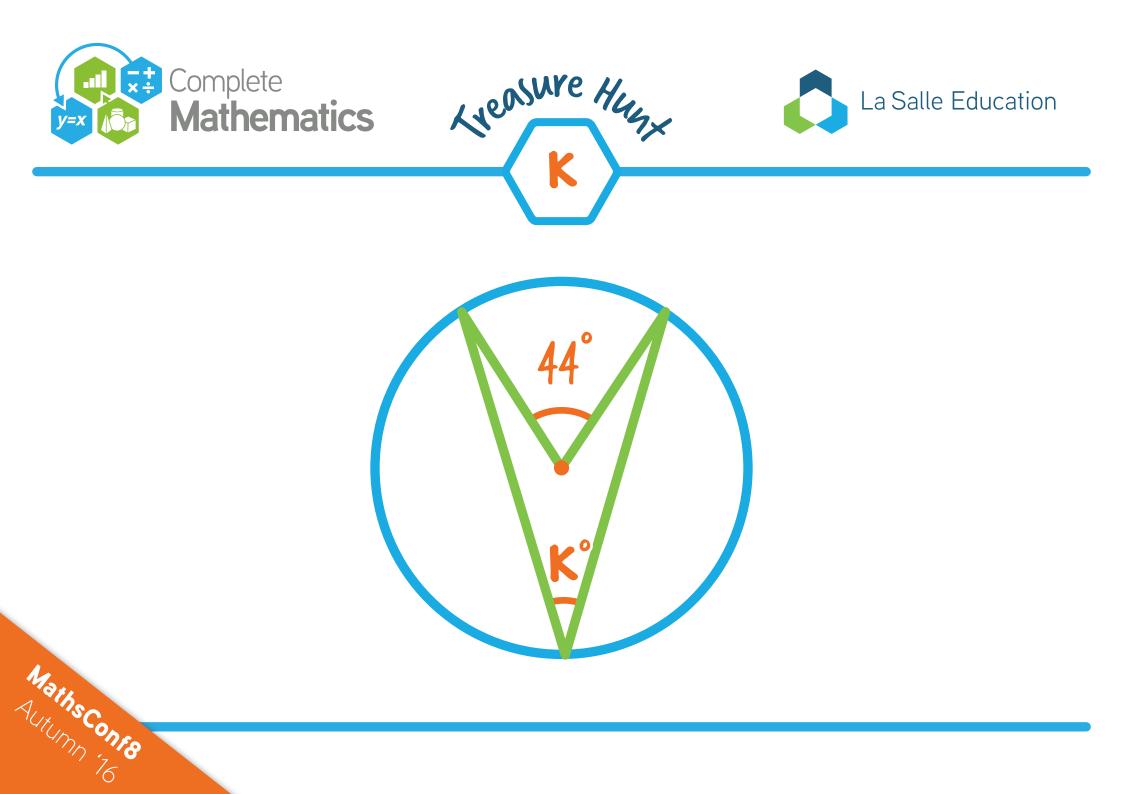


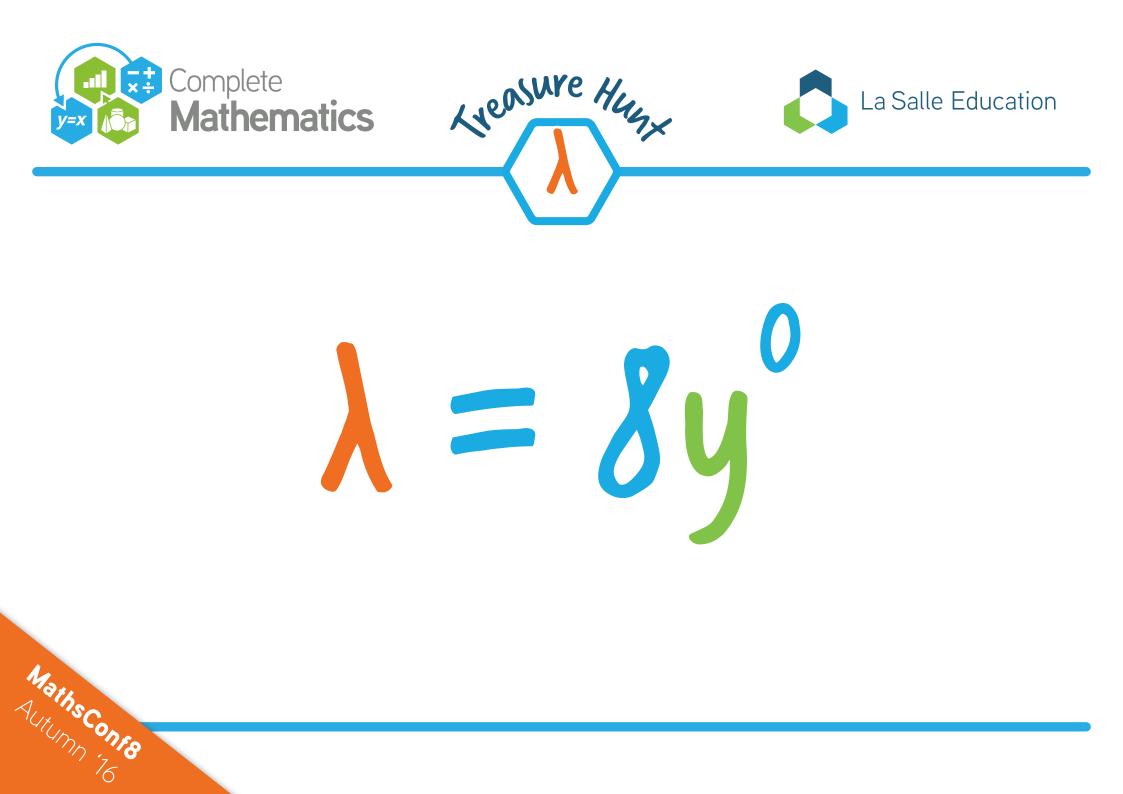






Area of (ircle =  $4\pi$ Area of Equilateral Triangle =  $y\sqrt{y}$ What is y?







MarhsConfe MarhsConfe MarhsConfe





## $(\sqrt{27} - 4)$ Area = $\mu$ $(\sqrt{27} + 4)$







## 4! + 3! - 2! $2^2$



MarhsConf8





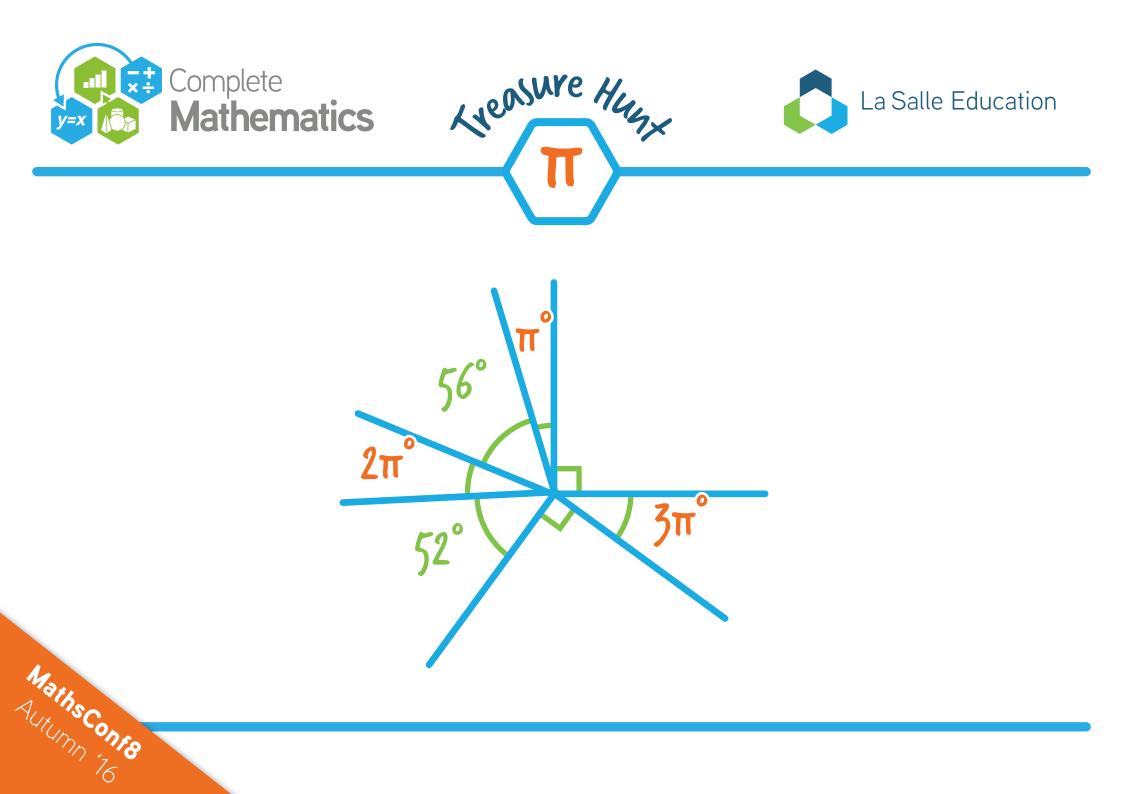
## $(10^{\circ}) + (2\sqrt{9}) \div (\sqrt[3]{8})$







#### $|2^2 - ||^2 - 3^2 - 2^2 + |^2$









# $\sum_{i=3}^{6} Fibonacci numbers (starting at 0)$







### $(y + \sigma)(y - 4) = y^2 - 16$







#### The number of vertices on a cube









#### The number of sides on a icosagon

Marhs Confe

#### The number of sides on a 20p coin







#### CLI XIX

