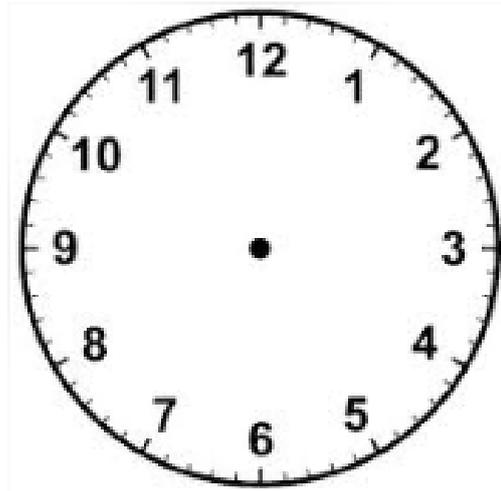


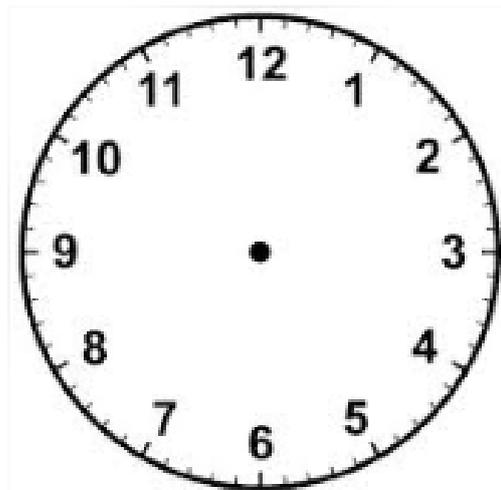
# Mathematics

## Time

This activity started at:



This activity will finish at:



# Compare the Pictures



**Picture A**



**Picture B**

How many rockets are there in Picture A?	
How many rockets are there in Picture B?	
Which picture has more rockets?	
How many stars are there in Picture A?	
How many stars are there in Picture B?	
Which picture has more stars?	



## Bonfire Night Goodies



Toffee Apples  
£1.00 each



Bonfire Toffee  
85p per bag



Hot Dog  
£1.25 each



Hot Ribena  
50p



Hot Chocolate  
70p



Pumpkin Soup  
99p



Jacket Potato  
£2.95



Cupcake  
42p

**Use the price list solve the following problems.**

1. How much does it cost to buy 1 toffee apple and 1 cupcake?

2. How much will it cost for 2 cupcakes?

3. If you buy a jacket potato and a cup of hot chocolate, how much will you spend?

4. Which is more expensive? 3 hot dogs or 4 bags of bonfire toffee?

5. How much is it for a hot Ribena and a pumpkin soup?

6. How much change will you get from a £1 coin if you buy a bag of bonfire toffee?

7. How much change will you get from a £10 note if you buy a jacket potato, a hot dog, two cups of hot Ribena and a cupcake?

# Solving Word Problems – Question 1

What is the question?



Last year 5639 people attended the firework display at The Forest.

This year 7564 people attended the firework display.

What is the difference in attendance figures for the displays?

What do I know from the question?

*(Try highlighting numbers and key words)*

What maths and/or resources do I need to use to solve the question?

Working out

The final answer is:

people

## Solving Word Problems – Question 2

What is the question?



A box of 'Spectacular' fireworks contains 7 rockets.

One morning, a factory makes 212 rockets.

How many full boxes do they make?



What do I know from the question?

*(Try highlighting numbers and key words)*

What maths and/or resources do I need to use to solve the question?

Working out

The final answer is:

**boxes**

## Solving Word Problems – Question 3

What is the question?

I have 4 different boxes of fireworks.



There are 5 Catherine Wheels in the first box, 8 in the second box, 7 in the third box and 4 in the fourth box.

What is the mean amount of fireworks?

What do I know from the question?

*(Try highlighting numbers and key words)*

What maths and/or resources do I need to use to solve the question?

Working out

The final answer is:

**fireworks**

## Solving Word Problems – Question 4

### What is the question?

You are going to have a bonfire party. It will cost you £48 for a box of fireworks. A shop has a sale with 25% off all fireworks. What price will you pay for your fireworks?



### What do I know from the question?

*(Try highlighting numbers and key words)*

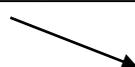
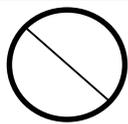
### What maths and/or resources do I need to use to solve the question?

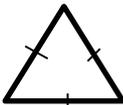
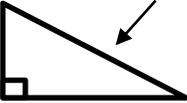
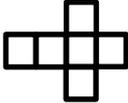
### Working out

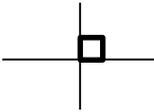
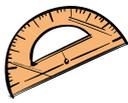
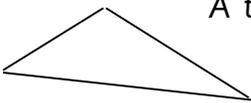
The final answer is:

£

## Mathematical Words

Acute Angle	Angles that are less than 90 degrees.	
Adjacent	Objects or things that are next to each other.	
Angle	A measurement of turn usually in degrees.	
Anti-clockwise	Going the opposite direction of the hands of a clock.	
Approximately	Roughly, round about.	
Area	Amount of space a surface covers.	
Ascending order	From the lowest to the highest value. E.g. 5, 7, 10, 28	
Ascend	Going upwards.	
Bisect	Divide something equally into two.	
Breadth	Measurement across something (can be called width).	
Capacity	The amount an object will hold.	
Century	100 hundred years.	
Centilitre	A metric measure of capacity. Represented by cl.	
Centimetre	A measurement of length. Represented by cm.	
Circumference	Distance round a circle.	
Consecutive	Follow on after each other. E.g. 35, 36, 37	
Classify	Sort things into classes or groups.	
Clockwise	Same direction of the hands of a clock.	
Convert	Change something from one thing to another E.g. £1.00 = 100p	
Co-ordinates	Used on maps, graphs & charts to help us find the position of something. E.g (3,4)	
Decade	Ten years.	
Decagon	2D shape with 10 straight sides.	
Decrease	Make something less in quantity, size, strength.	
Deduct	Take off an amount (subtract).	
Define	Explain exactly what something is.	
Denominator	The bottom number of a fraction.	
Descend	Going downwards.	
Descending order	From the highest to the lowest value.	
Diameter	A straight line that goes from one side of a circle to another passing through the centre.	
Dimensions	Measurements of size (cm, mm, kg etc.)	

Equilateral triangle	A triangle with sides that are all the same size and angles that are all the same size ( $60^\circ$ ).	
Equivalent	Of equal value.	
Estimate	A sensible guess, an approximate figure.	
Fraction	Gives the proportion of a whole.	
Frequency	Tells us how often something happens or occurs.	
Hemisphere	Shape of half a sphere.	
Heptagon	A 2D shape with 7 straight sides.	
Hexagon	A 2D shape with 6 straight sides.	
Hypotenuse	Longest side of a right-angled triangle.	
Improbable	Not likely to happen.	
Integer	Any whole number.	
Inverse	The opposite of something.	
Isosceles triangle	A triangle with two sides of equal length.	
Justify	Explain why you think your answer is correct.	
Maximum	Greatest, largest, most amount that is possible.	
Mean	A type of average of a set of numbers.	
Median	Middle number of a set numbers when the set is arranged in order. This is a special kind of average.	
Minimum	Smallest, lowest, least amount that is possible.	
Mode	A number that appears the most in a list of numbers. This is a special kind of average.	
Mixed numbers	A number which consists of a whole number and a fraction.	
Negative numbers	Numbers that are less than zero.	
Nonagon	2D shape with 9 straight sides.	
Net	Flat shape that can be cut out and folded to make a 3D shape.	
Numeral	Number written in figures.	
Numerator	Top number of a fraction.	
Obtuse angle	Angles that are more than 90 degrees and less than 180 degrees.	
Octagon	A 2D shape with 8 straight sides.	

Parallelogram	Four-sided 2D shape with its opposite sides parallel to each other. Opposite sides also equal in length.	
Pentagon	A 2D shape with 5 straight sides.	
Perimeter	Distance all the way round the edge of something.	
Perpendicular	At right-angles to a horizontal line.	
Polygon	Any 2D shape whose sides are all straight.	
Possibility	Something which is possible but not certain.	
Polyhedron	A 3D shape with 'many faces'.	
Prime numbers	A whole number greater than 1 that can only be divided by itself and 1.	
Probability	Likelihood of something happening.	
Protractor	Used for drawing and measuring angles.	
Quadrilateral	Any 2D shape with four straight sides.	
Quarter	Divide something into 4 equal parts.	
Quotient	The number of times one number can be divided by another.	
Radius	Distance from the centre of a circle to its circumference (edge).	
Range	Tells you how far a list of numbers spreads. Found by taking the lowest value from the highest.	
Ratio	A way of comparing things.	
Right-angle	An angle of 90 degrees.	
Rotate	Turn with a circular movement.	
Scalene triangle	A triangle that has no equal sides and no equal angles.	
Semi-circle	Half of a circle.	
Sequence	Things that follow on from each other. E.g. 4, 6, 8, 10, 12 etc.	
Simplify	Make something as easy to deal with as possible.	
Solution	The answer to a problem.	
Square number	A number that has been multiplied by itself.	
Statistics	A collection of facts and figures.	
Straight Line	Angles on a straight line add up to 180 degrees.	

Symmetrical	If something is this, it has 2 halves which are exactly the same.
Tabulate	Arrange information in a list or a table.
Total	The whole of something. To find this we count, add up the whole lot.
Trapezium	2D shape with 4 straight sides. 2 of its sides are parallel. 
Vertex	The corner of a 2D or 3D shape
Value	The amount (or worth) of something.
Vertical	Exactly upright.
Volume	Amount of space that something takes up.
x-axis	Horizontal axis. 
y-axis	Vertical axis. 
origin	Where the x-axis and y-axis cross each other.
2D	Flat shapes that have length and breadth.
3D	Shapes that have length, height and breadth. They are not flat. E.g. A cube or cylinder