

Fascinating Factors

What are the common factors of 24 and 56?

Don't let this bug
you man!



Magic Multiples

What is the lowest common multiple of
3, 8 and 6?

Multiples in my hat below,
Start to shake and start to grow.
Show yourselves one, two
three, and please be quick - I
need a pee!



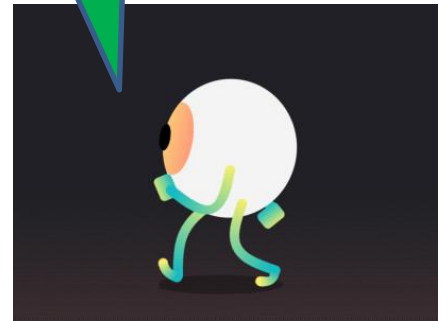
Meet me halfway!

I'm halfway
but where am
I?

I'm at 5.7



I'm at 12.9



Odd and Even

Sam says if I add three odd numbers together I get an even number is he right or wrong? Talk to your partner and explain why.

What does odd + odd + even make?

For a bonus mark, what is even x odd x odd?



You are stupandas! Ha!
Ha!

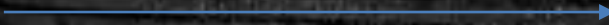
If the diameter of
a circle is 27 cm
what is the radius?

You have 10
seconds to name all
three parts of this
circle...go?

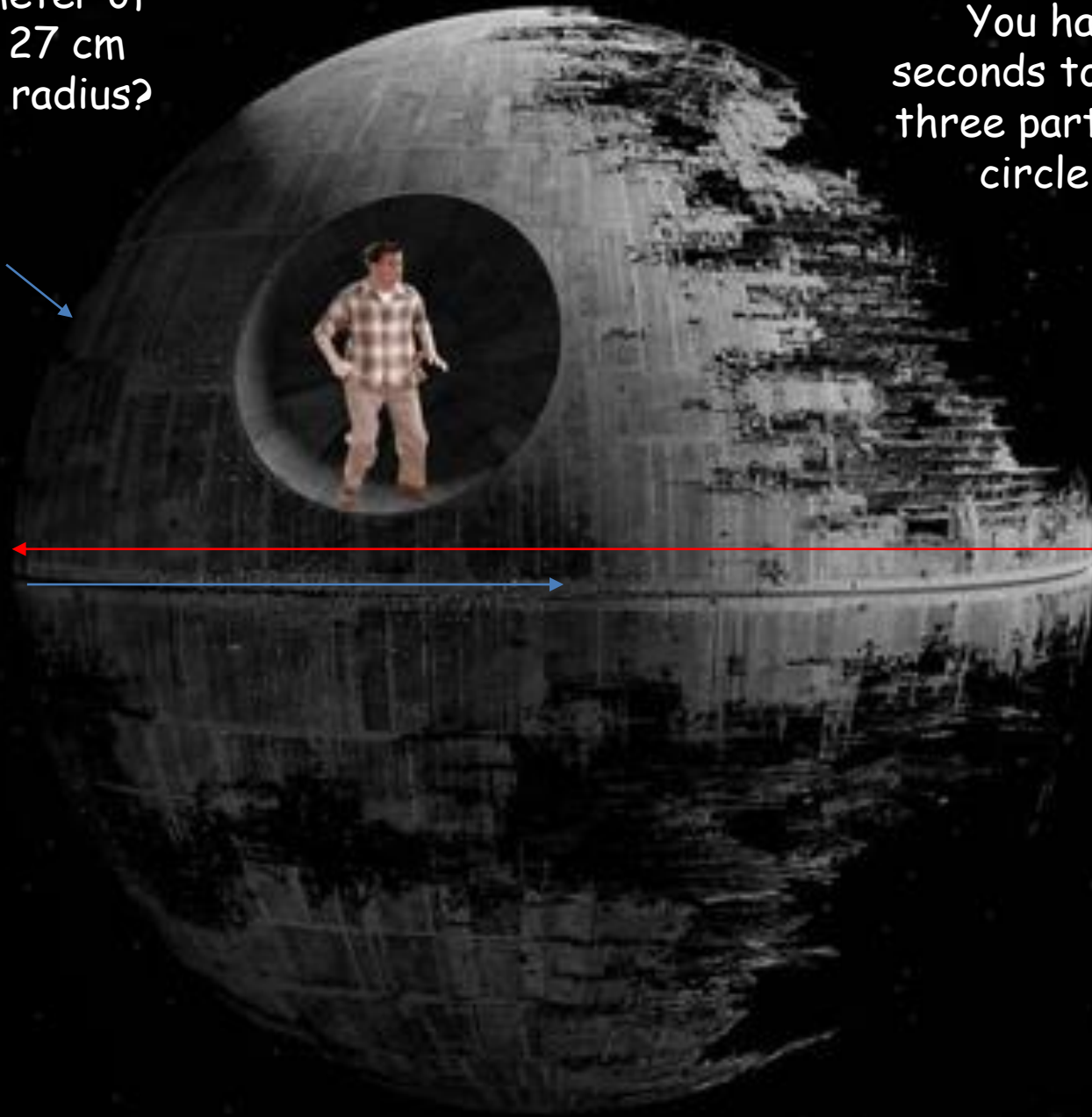
A



B



C



Sensational Symmetry

Help, help set us free,
what shape could this
be? How many lines of
symmetry is the key –
shout it loud and we
shall flee!

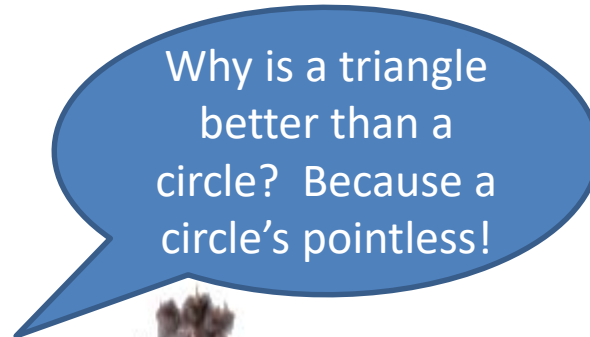


**What is the clever link between polygons and lines of symmetry? Clue:
think about those sides!**

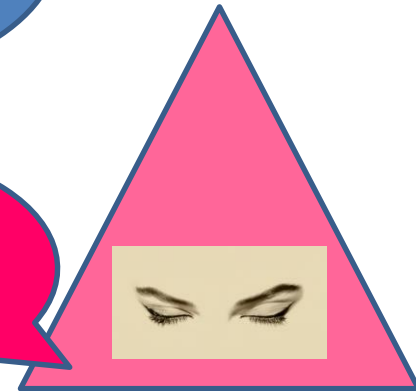
Terrific Triangles



They call
me 'Mighty
Ninety!'



Why is a triangle
better than a
circle? Because a
circle's pointless!



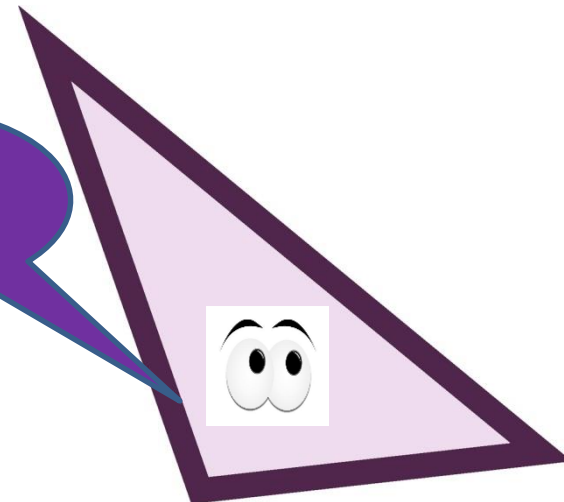
Practically
perfect in
every way!



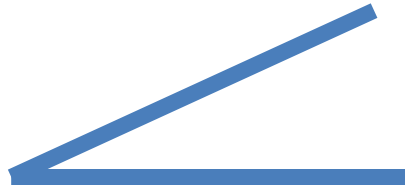
They say
I'm a bit of
a witch –
what me?



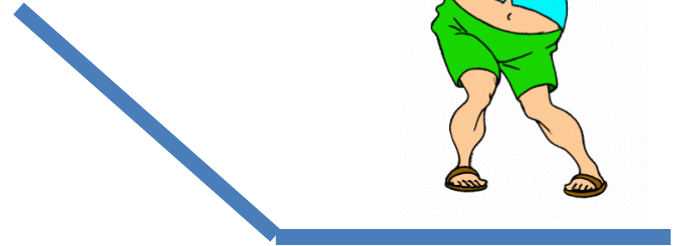
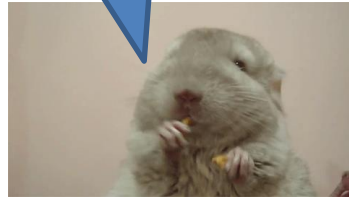
Am I
really
ugly?



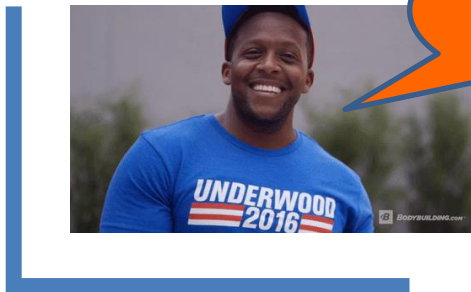
Name these angles



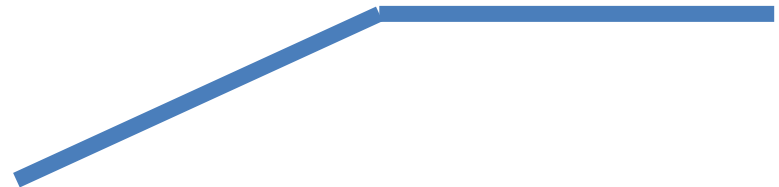
Hmm,
what kind
of angle?



I have a
big
belly!



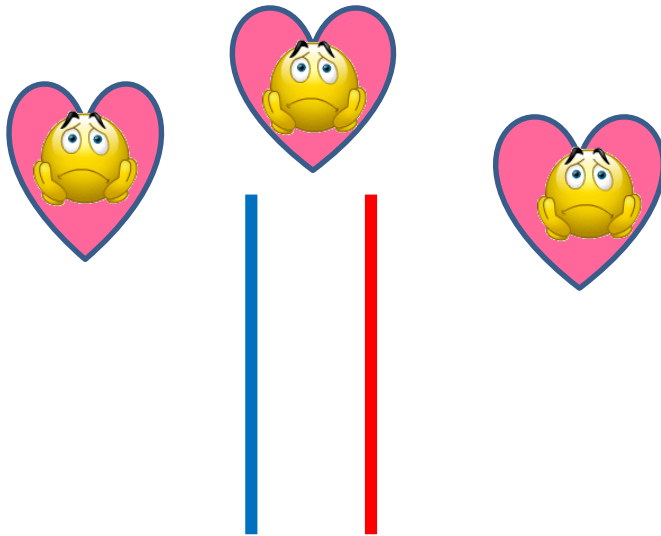
Check out
my angle!



So flexi!

The Sad Tale of Parallel Lines

Parallel lines... they never ever meet. It's so sad.



Which quadrilateral has only one pair of parallel lines?



How many pairs of parallel lines on this shape? What is this shape called?

Perpendicular Lines

Draw a pair of perpendicular lines.

For a bonus mark, name four quadrilaterals and one triangle which have or could have perpendicular lines?

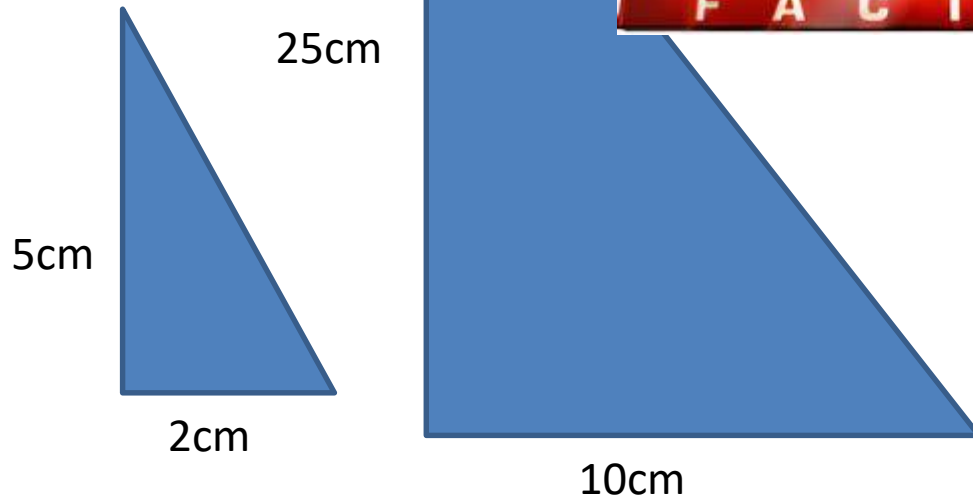


I am hoovering along my perpendicular line, soon my house will be mighty fine!

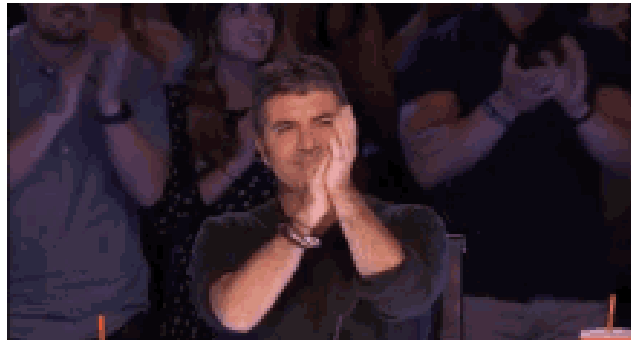
Scale Factor

Remember it's all about the

...just multiply!



By what scale factor has this triangle been enlarged?
Now show me your 'scale factor' and draw a square with sides of 2cm on a piece of squared paper and enlarge it by a scale factor of 3!



Converting between 12 hour and 24 hour clock.

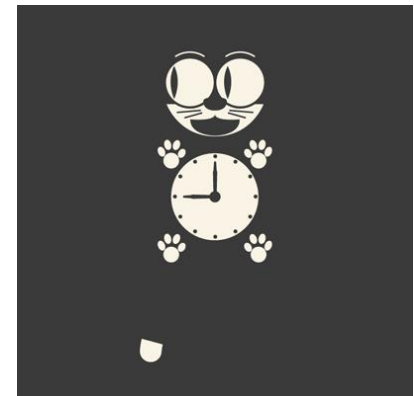
Convert these times to 24 hour clock:

9.17pm 4.17am 12.00am

Convert these times to 12 hour clock:

02:15 8:05 00:07

For a bonus mark, can you explain the rules to your partner for converting between 12 hr and 24 hr clock?



Catch the Bus – don't be late!

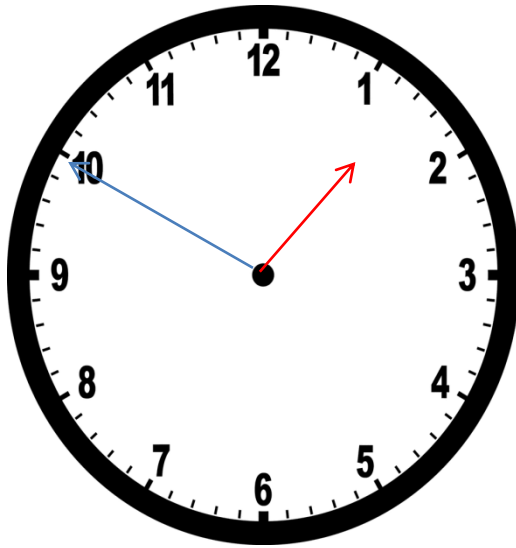
Norwich	05:20	09:05	10:44	12:44
Ipswich	-	09:55	11:35	13:35
Manningtree	07:00	-	13:25	14:25
Colchester	07:50	11:35	15:06	15:15

Sabrina has to be in Colchester for 1pm. What is the latest train she can catch from Norwich?

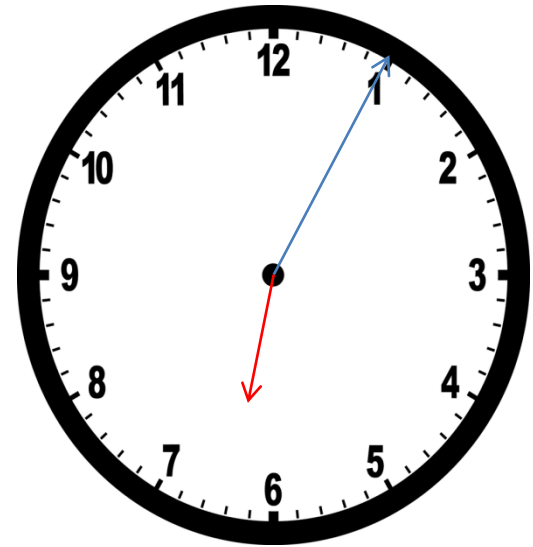
The party won't start till I walk in!



A play lasts for two
and three-quarter
hours what time does
it finish?



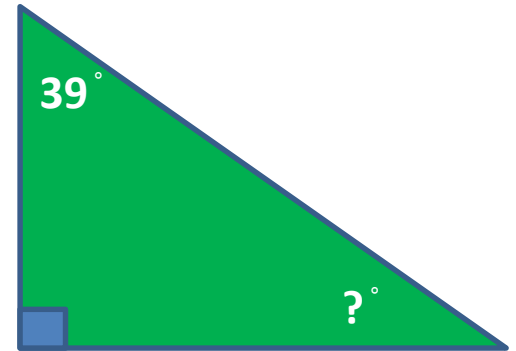
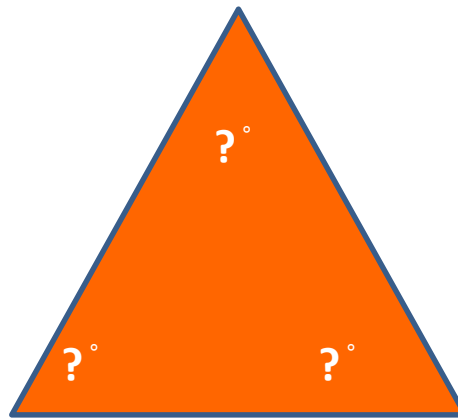
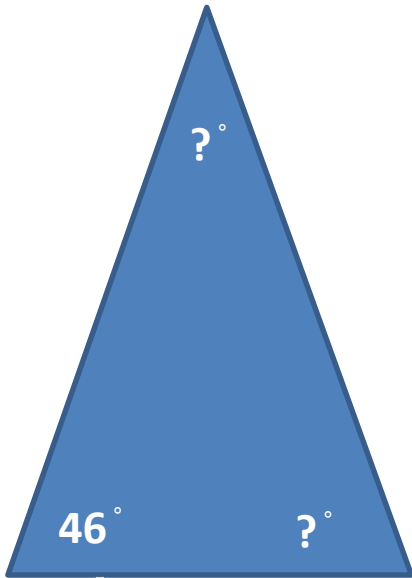
This clock is one and a
quarter hours fast,
what is the time?



Not a second to
loose!

Angry Angles

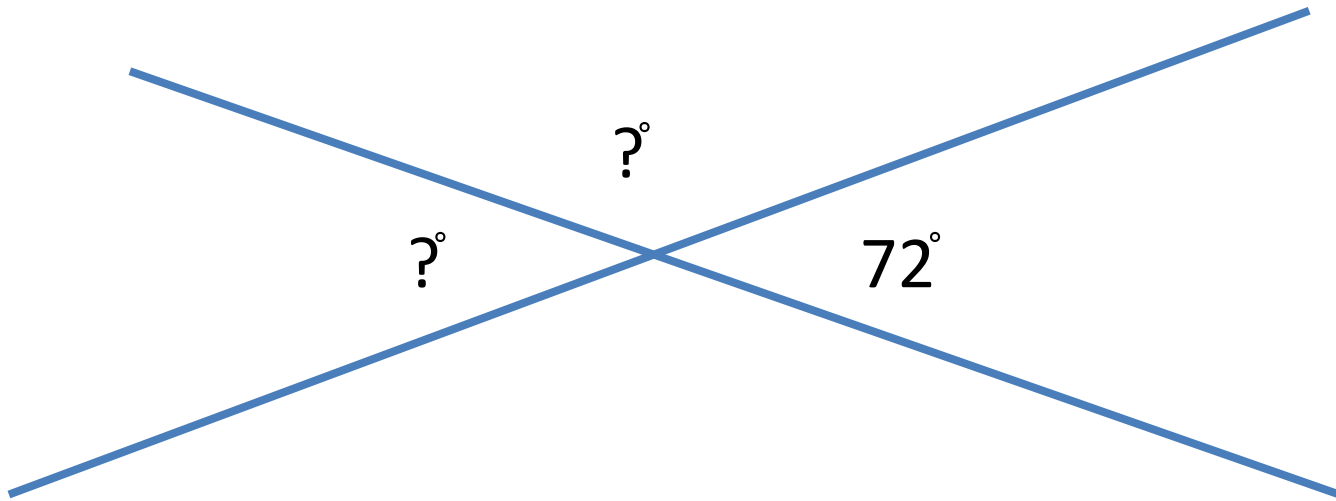
Use your triangle knowledge to find the missing. Don't let the birds defeat you!



For a bonus: what do angles in a quadrilateral add up to?



Amazing Angles



Can you find the two missing angles?

Hmmm....puzzling



Astounding Algebra

Letters and numbers look really tricky...but give them a try
don't be picky!

If there are p sweets in a bag and Lola adds five more write an expression for how many sweets are in the bag now.

If $p = 5$ find the what is c ?

$$2c + p = 11$$

Xbox games are f pence what is the the cost of 6 games. Write your answer as and expression.



Answer these
questions now, or
otherwise I will chase
you in my chariot!



Write 4, 9, 40, 90, 400 and 900 in
Roman Numerals.

What is the year? MCMLXXIX

Write in Roman Numerals 3,499

What does M stand for in Roman
Numerals?

What does V stand for in Roman
Numerals?

What does C stand for in Roman
Numerals?

What does X stand for in Roman
Numerals?

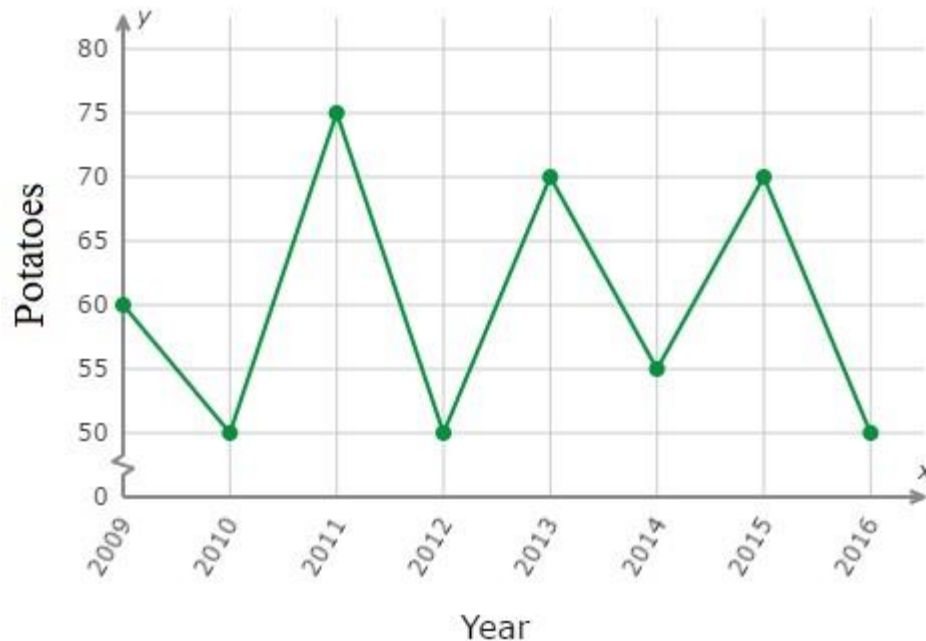
What does D stand for in Roman
Numerals?

What does I stand for in Roman
Numerals?

What does L stand for in Roman
Numerals?

Luscious Line Graphs

The graph below shows how many potatoes a school produced each year.



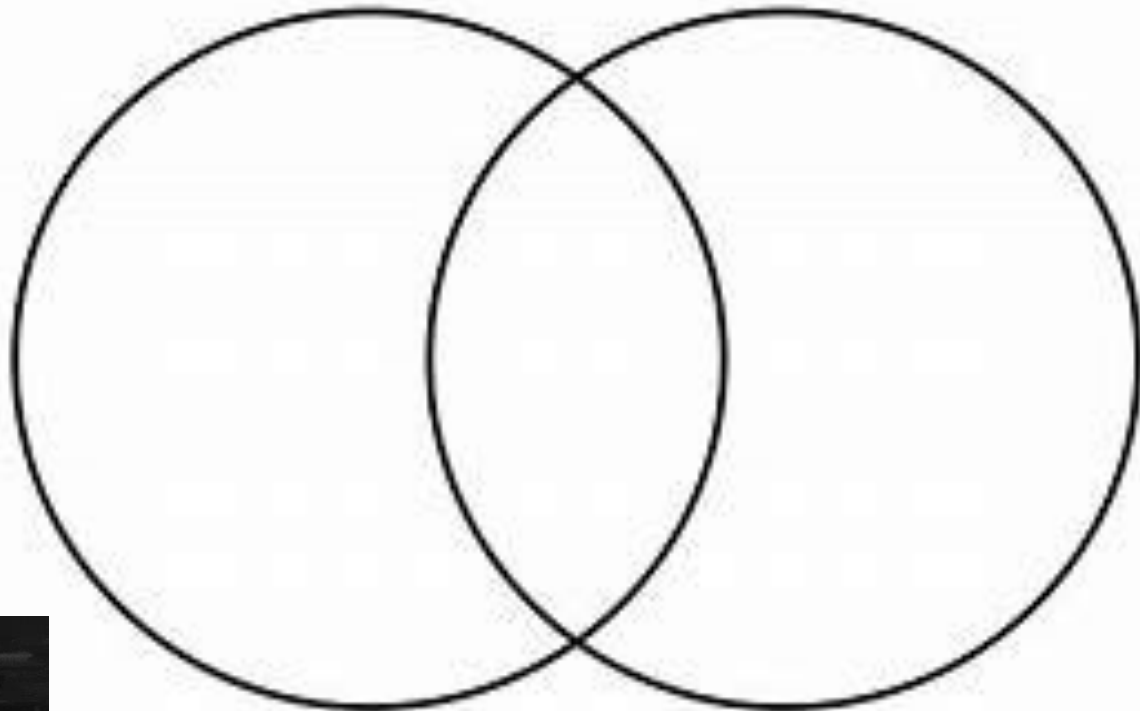
How many years did the school produce over 65 potatoes?

How many more potatoes were produced in 2013 than 2016?

Viscious Venns

Square numbers

Odd Numbers



Where will
the
numbers
go? We
don't really
know!



9, 17, 4, 18, 49

Pictograms

What would you draw if
9 people liked Jaffa
cakes? Keep quite if you
know the answer



Key



= 4 people

Year 6 Favourite Cookies

Jammy
Dodger



Digestive



ChocChip



Jaffa Cake

How many more people liked Digestive than ChocChip?

Here come's Carroll!

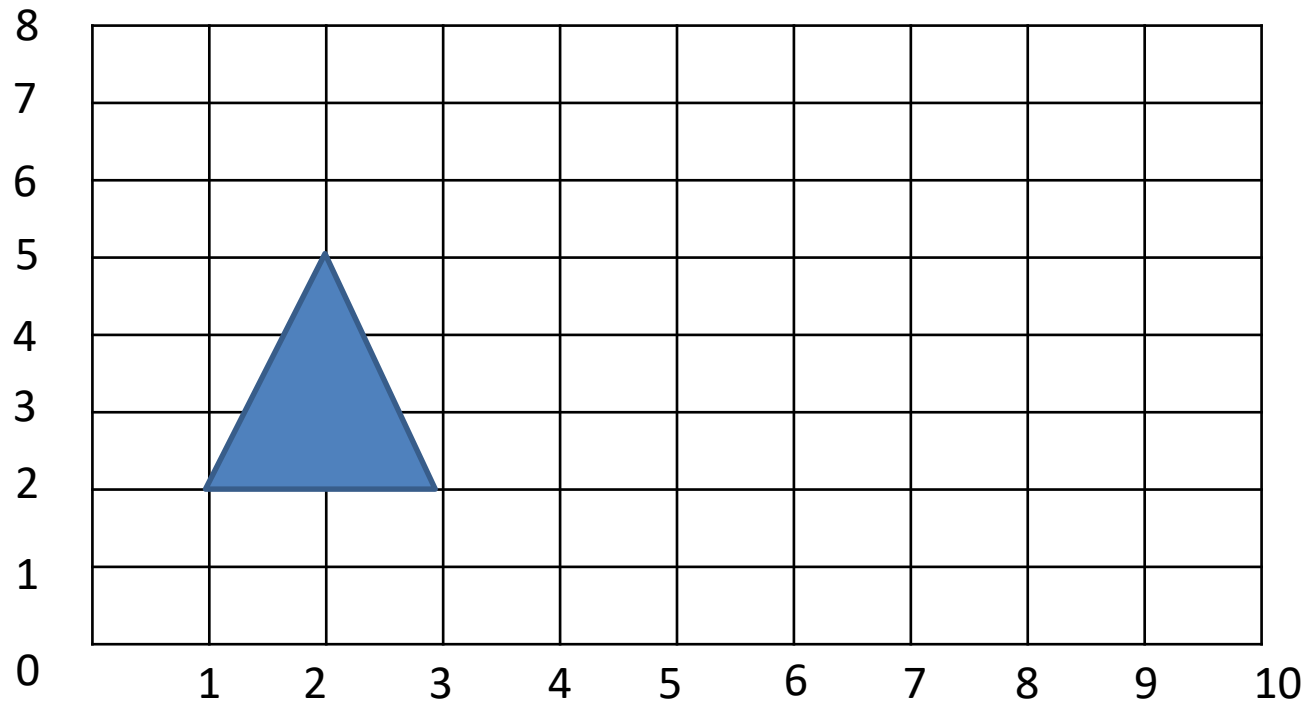


Insert the following numbers into the diagram below:

A, H, X, E

	One line of symmetry	More than one line of symmetry
Parallel lines		
No parallel lines		

Tricky Transformation



Can you translate this shape two squares right and three squares up?
What are the co-ordinates of the three corners?

Negative Numbers

In order to ensure you don't make a silly mistake with negative numbers, what should you always do?

Now test your skills with this little beauty:

The temperature at the North Pole is -18°C . In Ipswich the temperature is 3°C . What is the difference in temperature?



Are you pants at this?



Raving Ratios

- DJ Khalid plays music at his new club, Wild Thoughts, he plays five new songs for every 2 old songs. Last week he played 15 new songs how many songs did he play altogether?

Fraction Frenzy

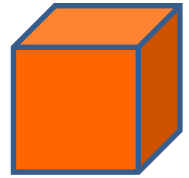
- Order these sneaky little fractions from smallest to largest.

$\frac{8}{12}$, $\frac{1}{2}$, $\frac{3}{4}$, $\frac{1}{3}$

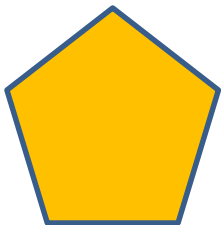
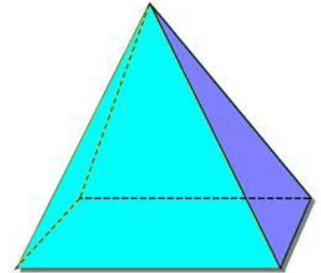
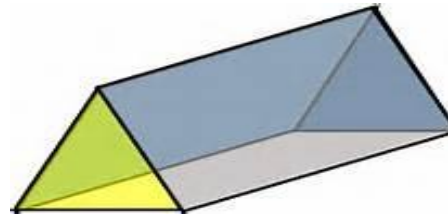
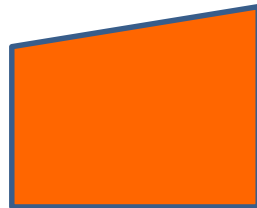
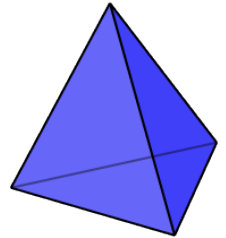
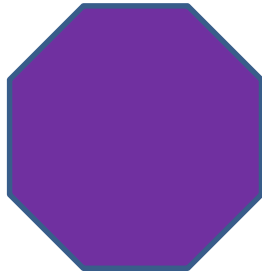
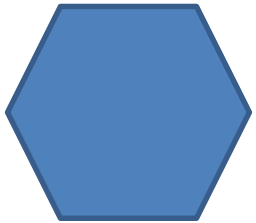




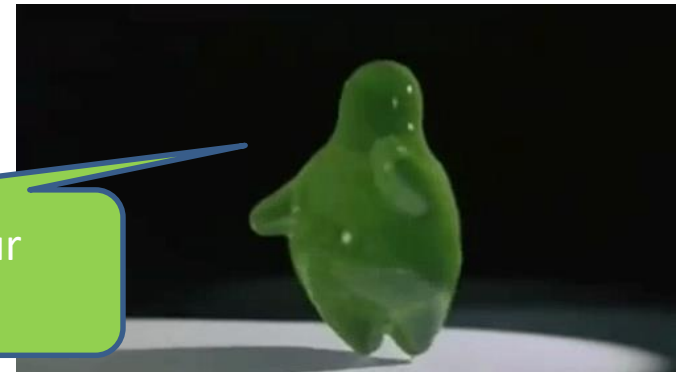
Shape Challenge



What are these shapes? Talk to your friend.



I'm jell'ous of your knowledge!





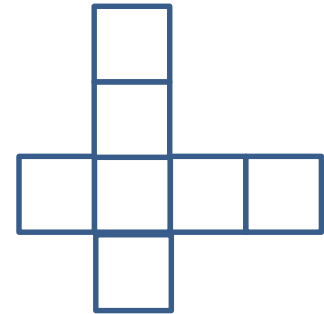
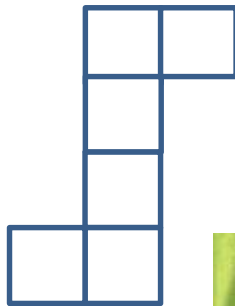
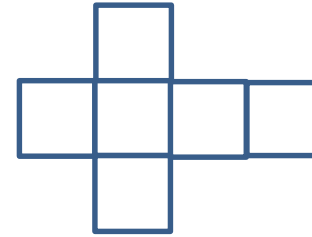
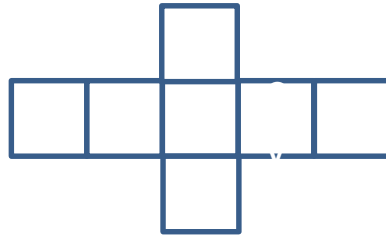
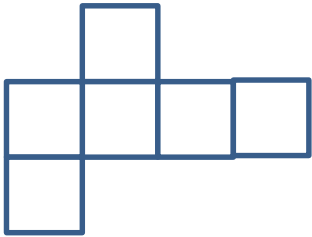
Remember my loyal subjects... vertices is the posh name for corners!

3D Shape

Shape	Number of vertices	Number of edges	Number of faces
Cylinder			
Cuboid			
Triangular Prism			
Square based pyramid			

Nets

Which of these are nets of a cube?



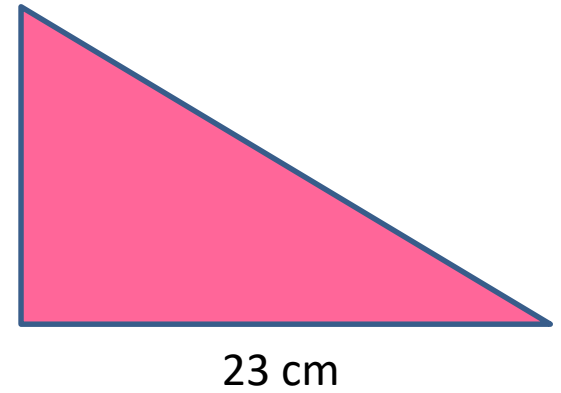
I'm not sure I like
nets...do I?

Tricky little Areas

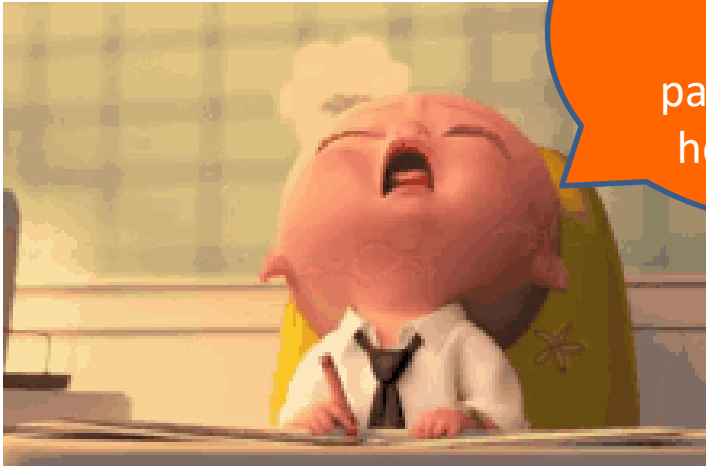


What is the area of this triangle?

8 cm

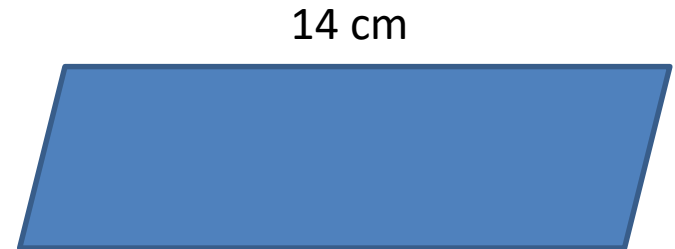


23 cm



Ahhhh, I can't find the area of this parallelogram – help me now!

3.2 cm



14 cm



www.3dCartoonModels.com