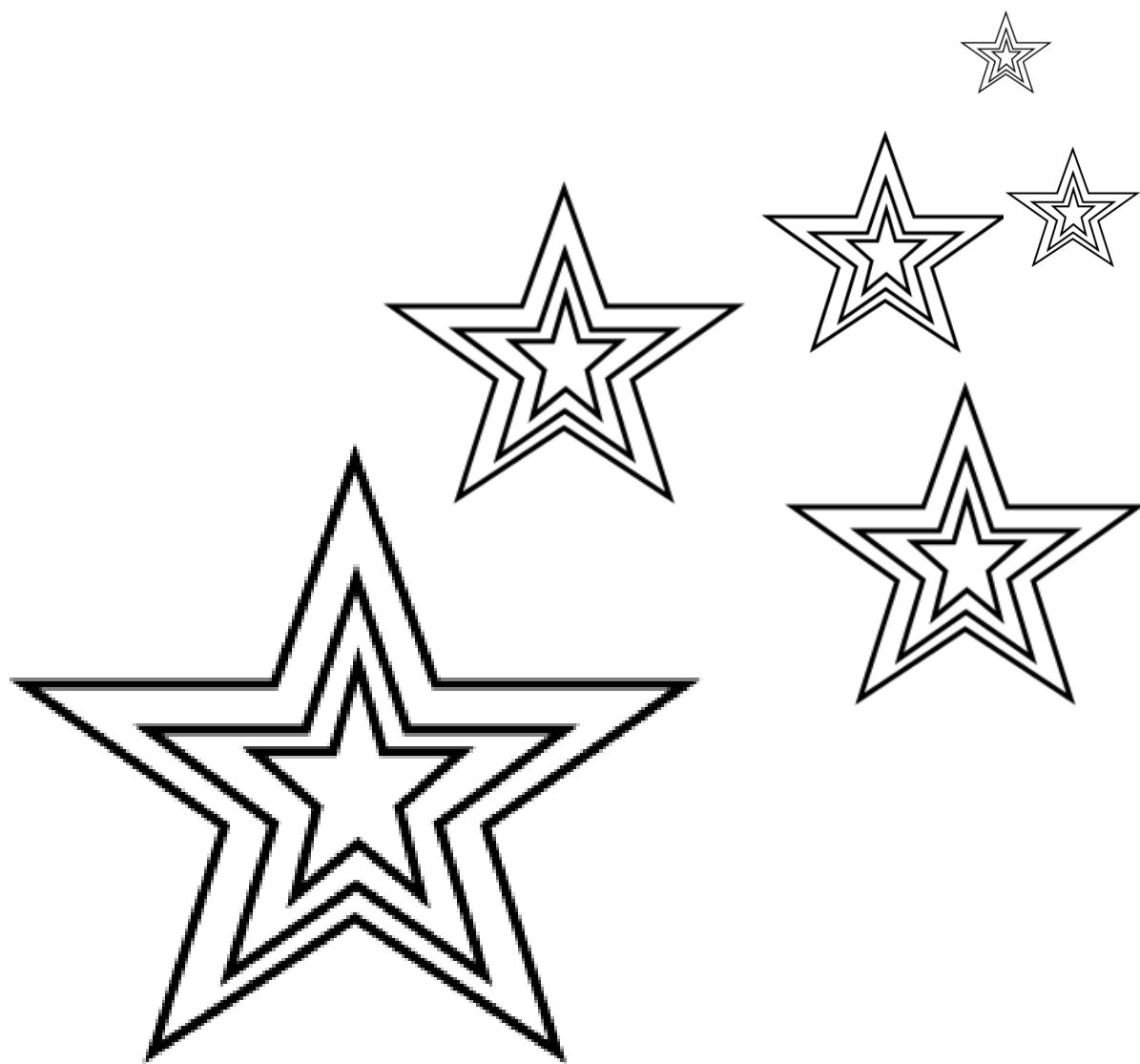# Reach for the Stars

Mental Maths Targets

Reach for the stars

Moon
Mars
Jupiter
Saturn
Uranus
Neptune
Pluto
Outer Space

Colour 1	I think I have reached this target.
Colour 2	My friend thinks I have reached this target
Colour 3	I have reached this target, my teacher agrees

The Moon

Welcome to the Race to Space
When you think you have reached a target
1.   Colour the nose cone
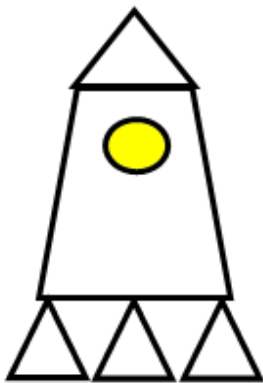When your friend thinks you have
2.   Colour the boosters
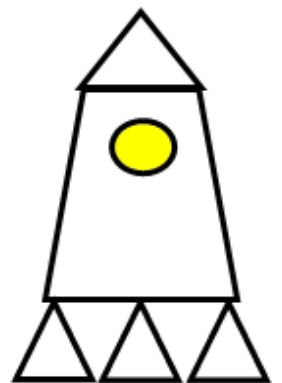When your teacher thinks you have
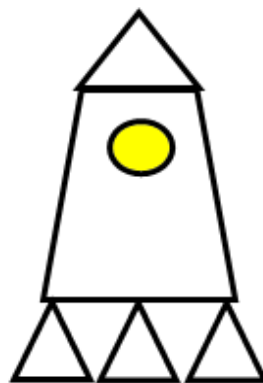3.   Colour the rocket
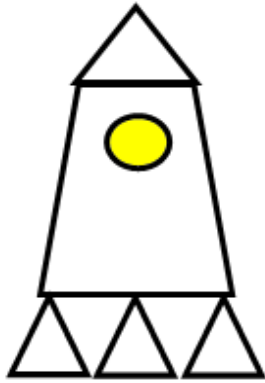.......and you're off

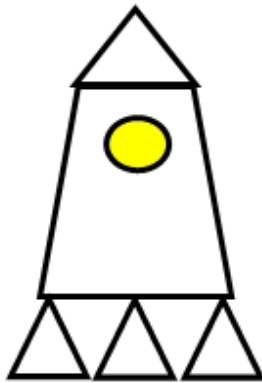I can count aloud in ones

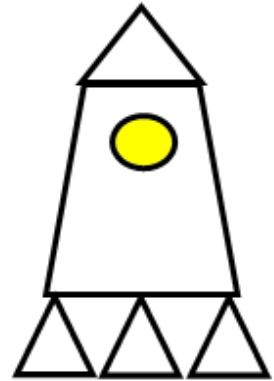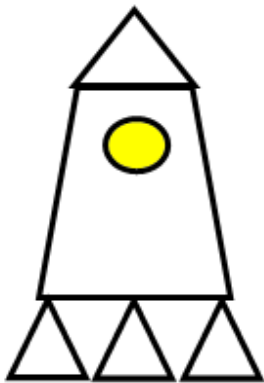I know the numbers from 0 to 9

I can say the numbers 1 to 10
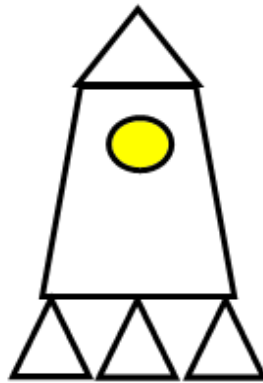
I can say one
more than a
number from one
to ten

I can say one less
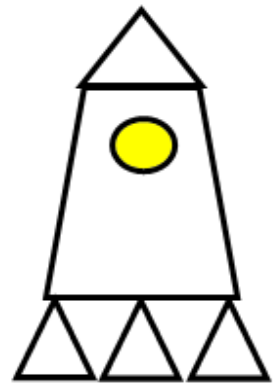than a number from
one to ten

I can count up to
10 objects
reliably

I can count objects in
fives

I can count objects in
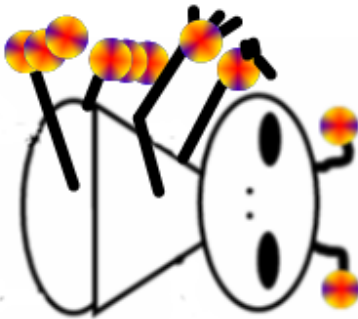twos

I can count objects in
tens

MARS

You have now reached Mars, well done!!! Can you reach your Mars targets and travel to the next planet in the Solar system?

Every time you meet your target colour in the alien's head, body or waist.
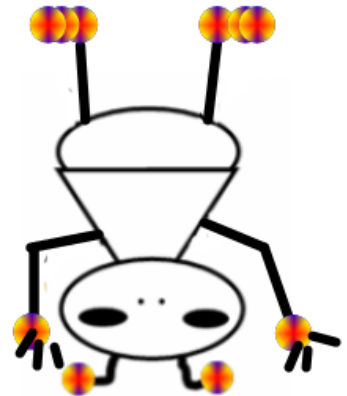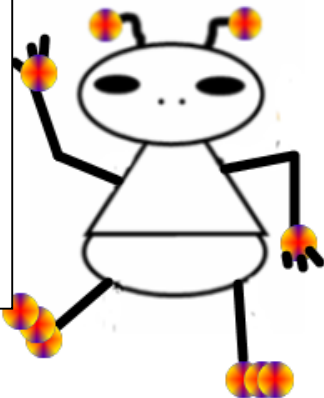
I can read numbers to 20.
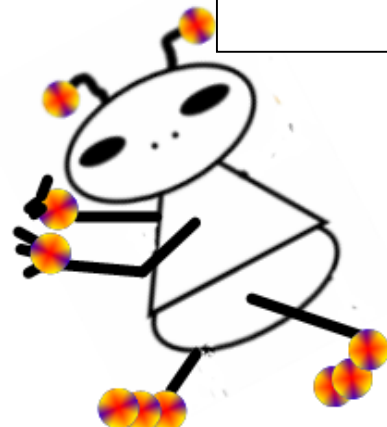
I can write numbers to 20.

I can order numbers to 20.

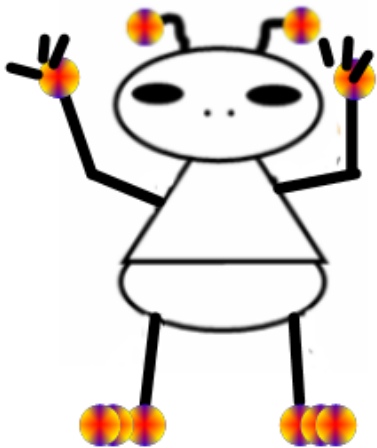I can say the number that is 1 more or less than a given number.
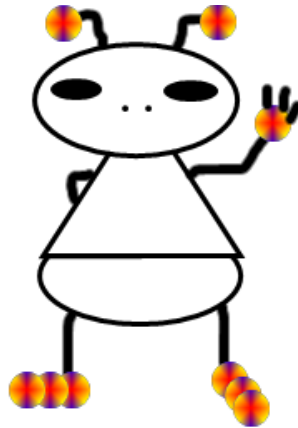
I can count reliably to 20.

I can find multiples of 10 by counting up and down in 10s.

I can find multiples of 2 by counting up and down in 2s.
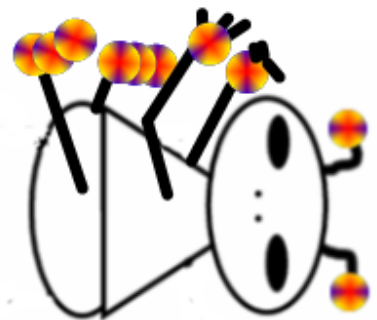
I know by heart all number bonds to 10.

I can remember doubles of numbers to 10.

I can say the number 10 more or 10 less than any multiple of 10 to 100.

I can find multiples of 5 by counting up and down in 5s.

Jupiter

You have now managed to reach Jupiter, the largest of the planets, congratulations. Every time you meet your target, colour in one part of the gas clouds.

I can count reliably to 100

I can count a group of objects by grouping them into tens, fives or twos

Recall addition facts for each number to 10

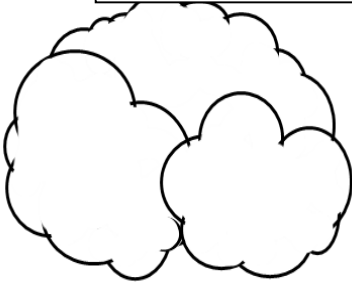I can read and write two digit numbers

I can recognise odd and even numbers

I can recall subtraction facts for each number to 10.

I know by heart all number bonds that total 20

I know by heart all halves of numbers to 20

I know by heart doubles of all numbers to 20

I know by heart all bonds of multiples of 10 up to 100

I know by heart all multiplication facts for 2 up to 2 x 10

I know by heart all division facts for 2 up to 20

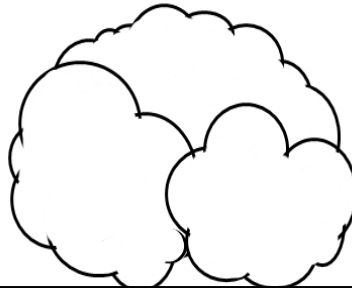I know by heart all multiplication facts for 5 up to 5 x 10

I know by heart all multiplication facts for 10 up to 10 x 10

I know by heart all division facts for 5 up to 50

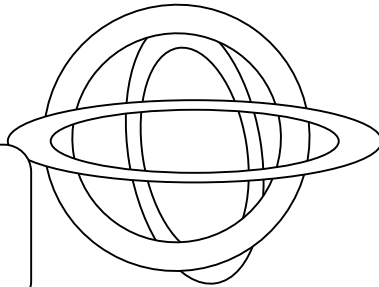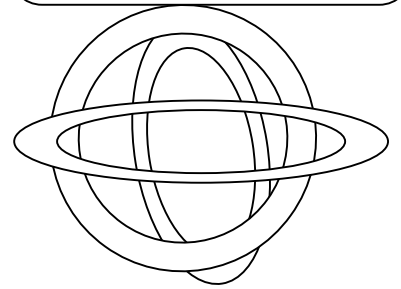I know by heart all division facts for 10 up to 100

Saturn

Congratulations on reaching Saturn. Can you progress further through the solar system?
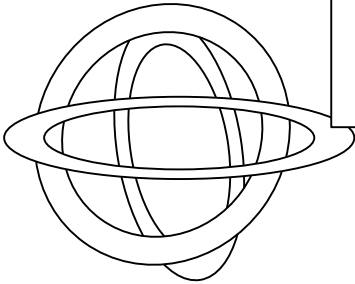Each time you meet one of your targets colour in one of Saturn's rings.
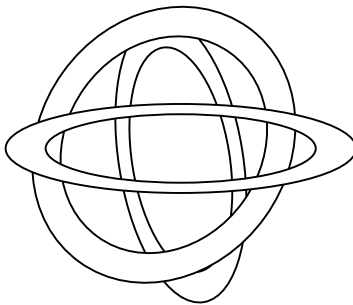
I can derive number pairs that total 100

I can recognise multiples of 2, 5, 10 up to 1000
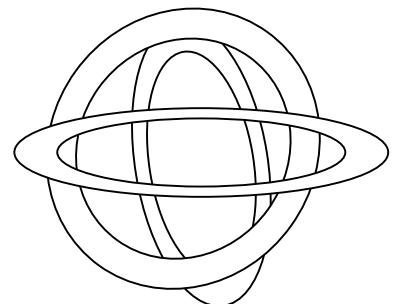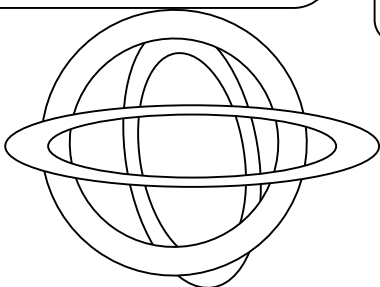
I know by heart all division facts for 3 up to 30

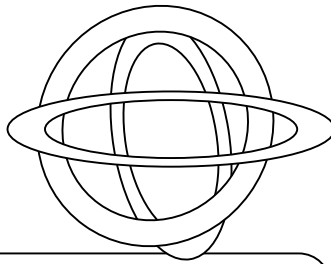I know by heart all division facts for 4 up to 40

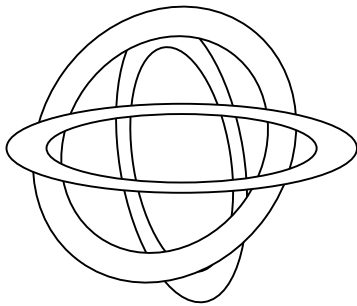I know by heart all division facts for 6 up to 60
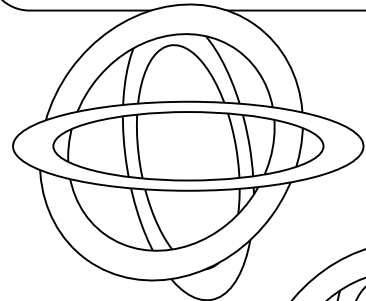
I know by heart all number bonds that total 100

I know by heart all division facts for 8

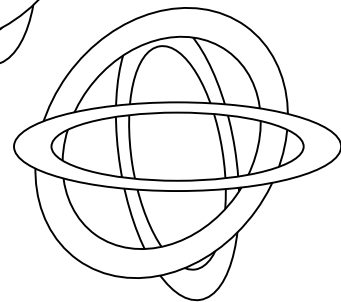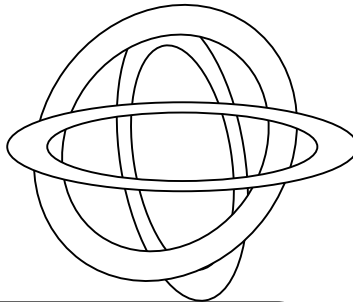I know by heart all multiplication facts for 4 up to 4 x 10

I know by heart all sums and differences of multiples of 10 up to 100
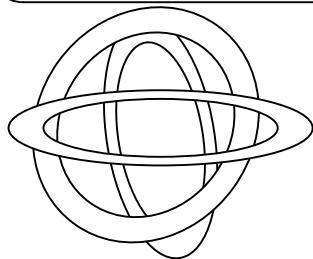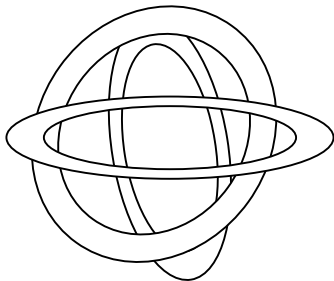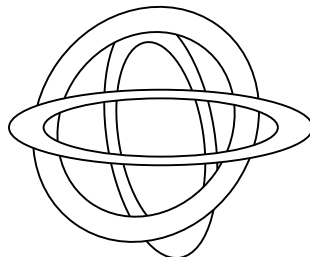
I can order whole numbers to 1000

I know by heart all multiplication facts for 6 up to 6 x 10
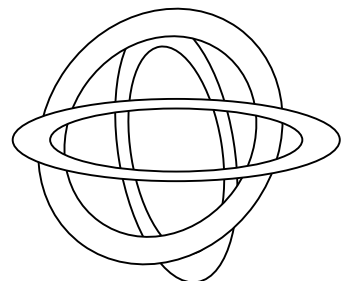
I can read 3 digit numbers

I know by heart all multiplication facts for 8 up to 8 x 10
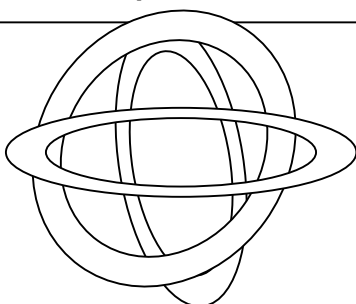
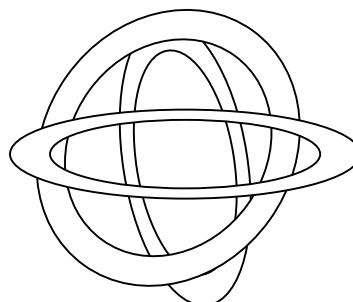I can recall addition facts for each number to 20
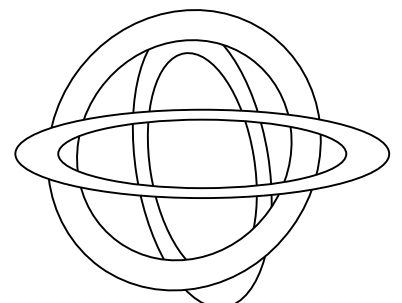
I can recall subtraction facts for each number to 20

I can multiply two digit numbers by 10 or 100.

I can count on from any number in 10s

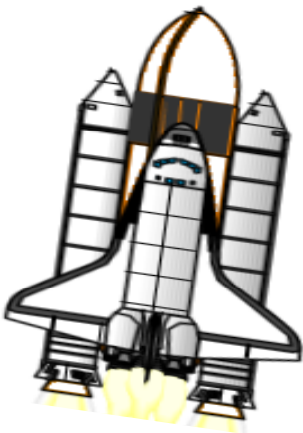I can multiply one digit numbers by 10 or 100

You have now reached Uranus, well done!!! Can you reach your Uranus targets and travel to the next planet in the Solar system?
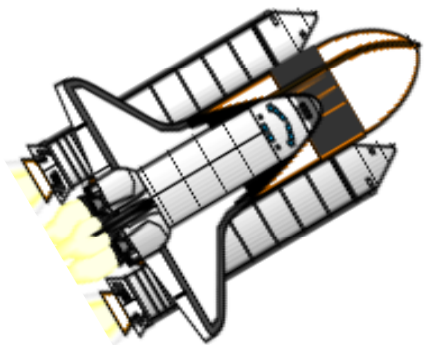
Every time you meet your target, colour in the Rocket's nose cone, middle or boosters.
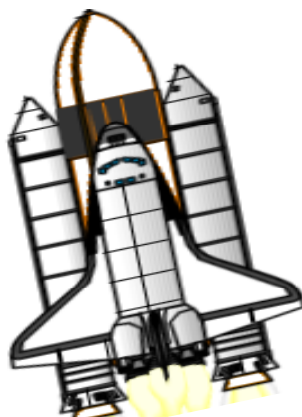
Uranus
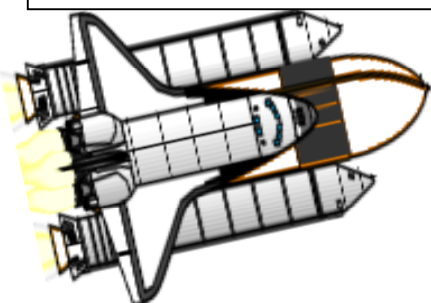
I can double any 2 digit number

I know the sums and differences of pairs of multiples of 10.

I can halve any 2 digit even number

I know by heart all division facts for 7 up to 70

I can multiply numbers by 10 and 100.
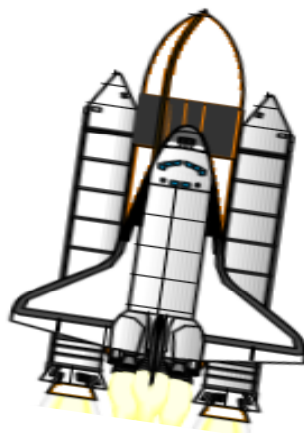
I know by heart all division facts for 9 up to 90.
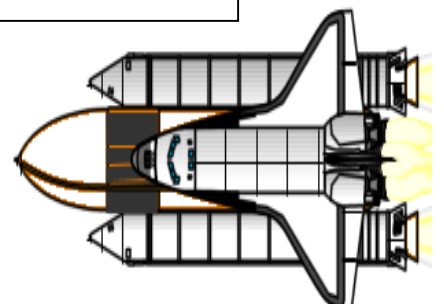
I know by heart all multiplication facts for 9 up to 9 x 10

I can divide numbers by 10 and 100 (whole number answers)

I know the sums and differences of pairs of multiples of 100.

I know the sums and differences of pairs of multiples of 1000.

I know by heart all multiplication facts for 7 up to 7 x 10

I know the decimal equivalents for ¼, ½, ¾, tenths and hundredths.
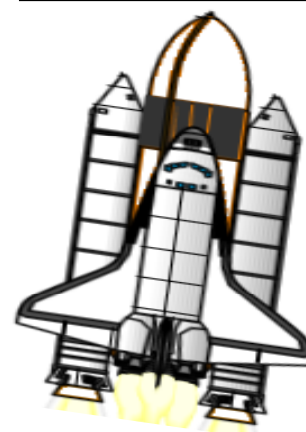
Neptune

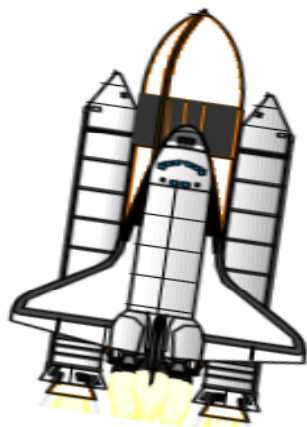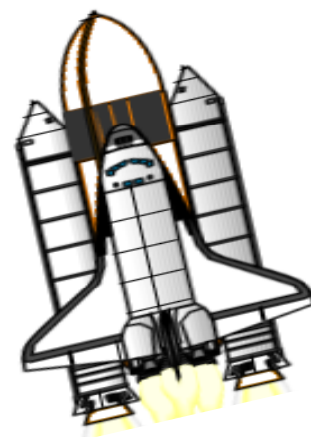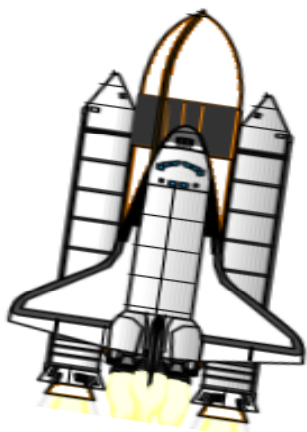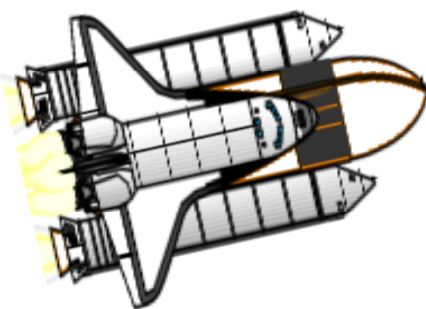You have now reached Neptune, over 30 times further away that the sun. This blue planet was named after the Greek God of the sea, because it was thought it was made of water. Colour in one part of Neptune each time you meet your target

© 2000 Walter Myers

I can relate fractions to their decimal representations

I can halve any number with up to 1 decimal place

I can order numbers with up to two decimal places

I can double any number with up to 1 decimal place

I can count up from any given number in tenths

I know the factors of all times table answers up to 10 x 10

I can express tenths in percentages

I can use knowledge of multiplication facts to multiply pairs of multiples of 10 and 100

I can express hundredths in percentages

I can recall quickly multiplication facts up to 10 x 10

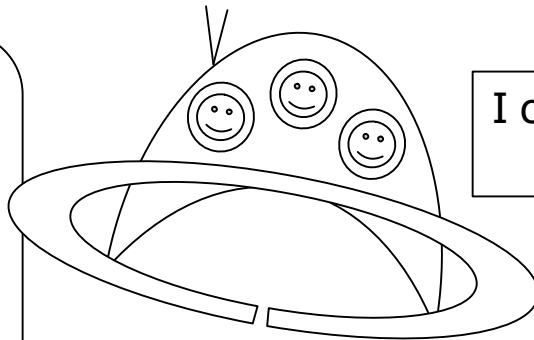I know common percentage/fraction/ decimal equivalents.
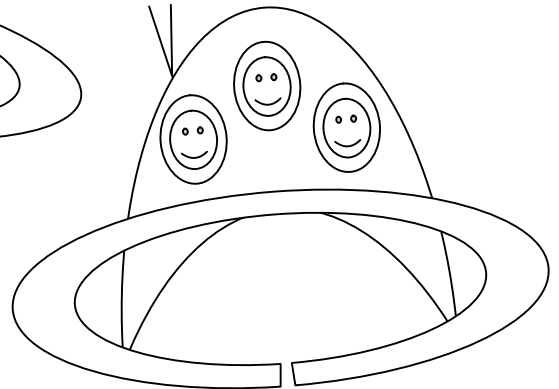
Pluto

Congratulations on reaching Pluto.
Can you meet your targets and travel further through the solar system?

Every time you reach a Pluto target, colour in one of the spacemen's faces.. Good luck!
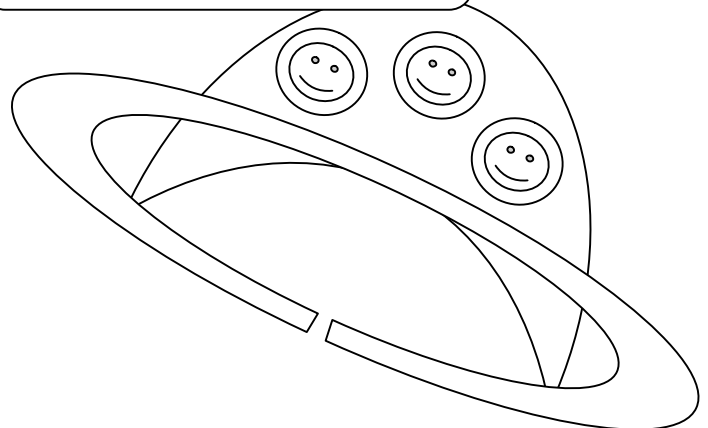
I can recognise and recall factors of numbers up to 100 and corresponding multiples of 100
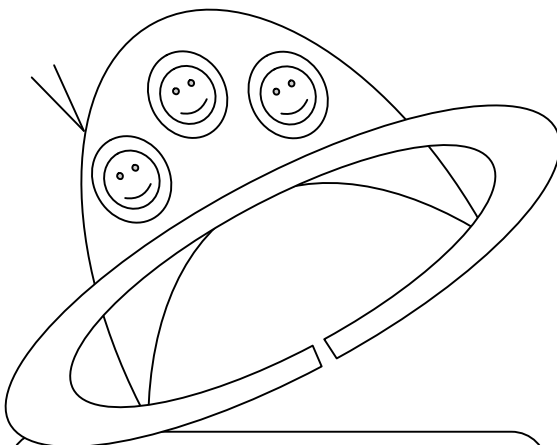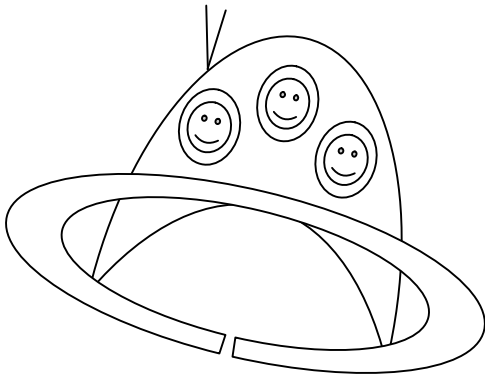
I can order decimals with up to 3 decimal places

I know the prime numbers

I can find the sums and differences of numbers with one decimal place.

I can simplify
fractions

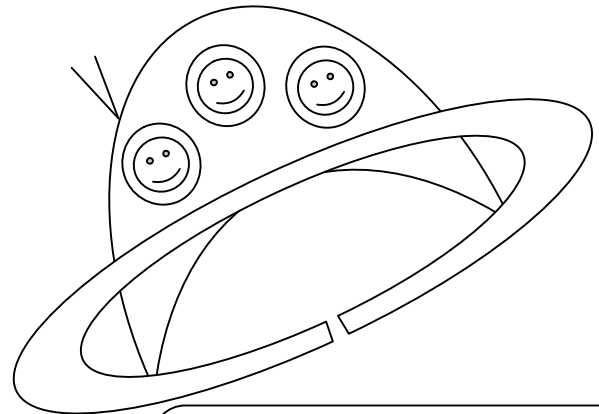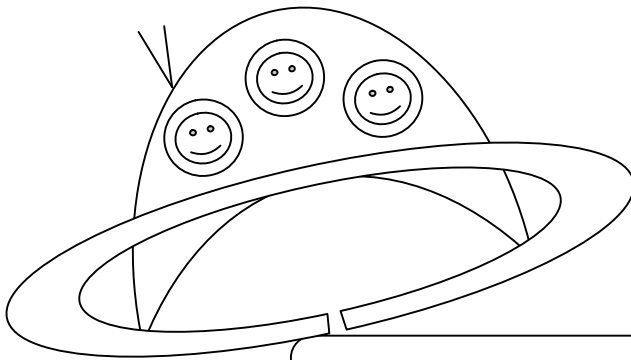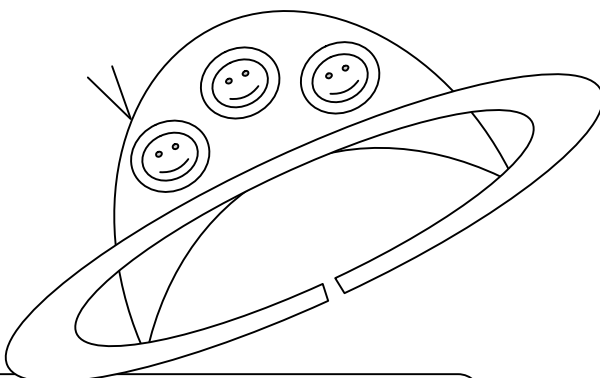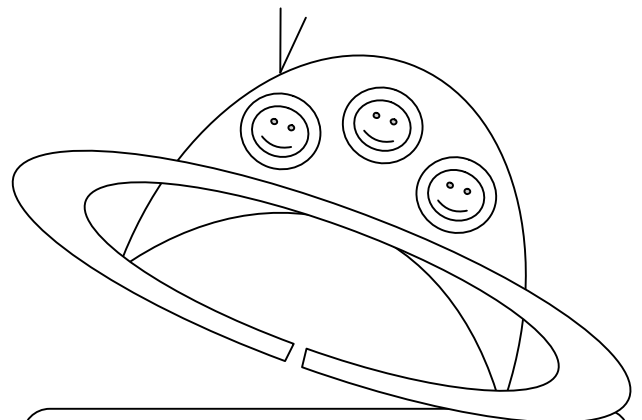I can relate fractions to
multiplication and division.

I know by heart all the
squares of numbers to
12 x 12

I can find prime factors
of two digit numbers

I can recall all pairs of
fractions that total 1

I know by heart all squares of
multiples of 10

OUTER SPACE

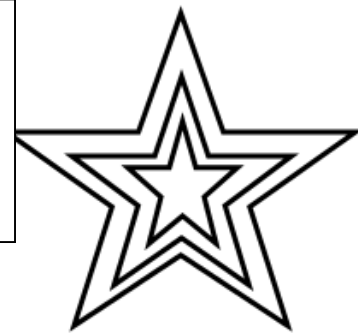You have now reached OUTERSPACE and are on your way to the stars!. Well done!!!

Can you complete your booklet?

Every time you meet your target, colour in one stripe of the star.

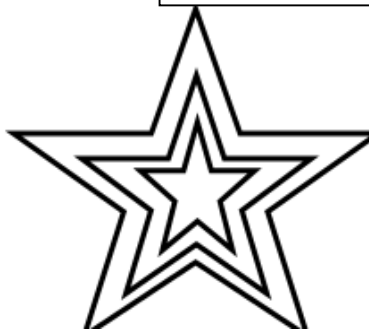I can compare and order numbers, including decimals

I can order different fractions by changing them into decimals.

Order different fractions by changing them into decimals.

I can write numbers as a ratio and reduce it to its simplest form

I can recognise the square roots of perfect squares to 12 x 12

I can recall number facts, including multiplication and the inverse division facts

I can recognise the square roots of perfect squares to 12 x 12.

I can order different fractions by changing them into decimals.

I can write numbers as a ratio and reduce it to its simplest form.

I can recall number facts, including multiplication and the inverse division facts

I can make and justify estimates and approximations to calculations
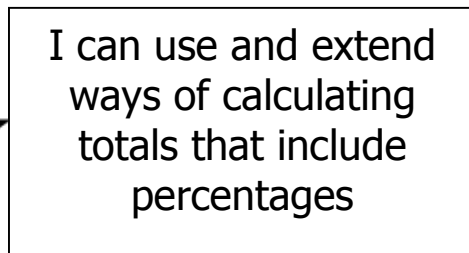
I can recognise common factors, multiples and divisors in whole numbers.

I can use and extend ways of calculating totals that include fractions.

I can use and extend ways of calculating totals that include percentages

I can increase or decrease percentages and fractions, using measures and numbers.

I can use and extend ways of calculating totals that include decimals.