Monday (p4)

Look at the table carefully with an adult.

Planet	Number of moons	Year length (Earth days/years)	Day length (Earth hours\days)	*Diameter (miles)	Temperature	
					Max. (°C)	Min. (°C)
Mercury	0	88 days	59 days	3031	430	–184
Venus	0	225 days	243 days	7521	464	464
Earth	1	365 days	24 hours	7926	57	–89
Mars	2	687 days	24·6 hours	4222	20	–120
Jupiter	67	11·9 years	9·8 hours	88729	–110	–110
Saturn	62	29·5 years	10·2 hours	74 600	–140	–140
Uranus	27	84·1 years	17·9 hours	32 600	–197	–197
Neptune	13	164·8 years	19·1 hours	30 200	–204	–204

*The diameter of a planet is a straight line from one side to the opposite side passing through the centre of the planet.

Use the table to answer the questions below.

A

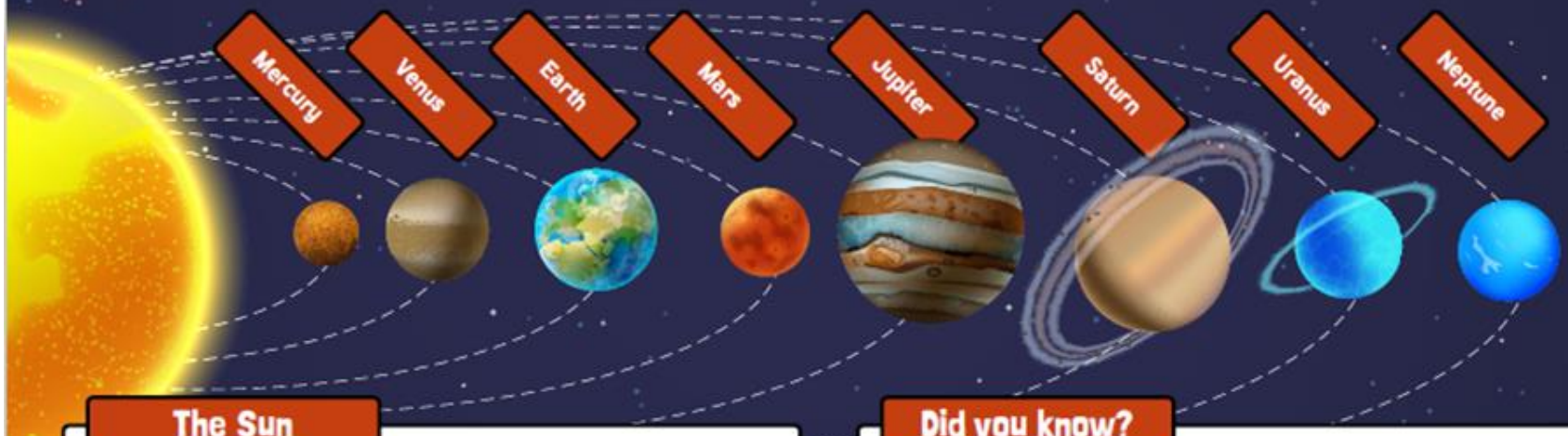
1. How many moons does Mars have?
2. How long is a year on Mercury?
3. What is the diameter of the Earth?
4. What is the temperature on Saturn?
5. How long is a day on Uranus?

6. Which planet has a maximum temperature of 20°C?
7. Which planet has 67 moons?
8. Which planet has a year 29·5 years long?
9. Which planet has a diameter of 30 200 miles?
10. Which planet has a day 59 times longer than a day on Earth?

The Planets Knowledge Organiser

Science

In our Solar System, there are 8 planets. They all orbit The Sun which sits in the centre. The planets closest to The Sun are the hottest and the planets furthest away are coldest. Our planet, Earth, is just the right temperature for life. Earth is the only planet in our Solar System that has life.



The Sun

The Sun is not a planet! It is a star. It is at the centre of our Solar System and gives light and heat to all the planets in it. It also has a gravitational pull that keeps all the planets in orbit around it.

Did you know?

There used to be 9 planets in our Solar System. There was a planet called Pluto that was even further away than Neptune. Pluto used to be a planet until scientists deemed it 'too small' as some of the other planets' moons were bigger than it. It is now categorised as a dwarf planet instead.

Orbits

All the planets in our Solar System orbit the sun. The Sun is at the centre of our Solar System. Each planet takes a different amount of time to orbit The Sun depending on how far away it is and how slowly it moves. Planets orbit The Sun because of gravity. The Sun's gravitational pull keeps all the planets in orbit. Planets travel on an elliptical path around The Sun, which keeps them from falling into The Sun. Below is a table which shows how long it takes each planet to orbit The Sun.

Mercury	87.97 Earth Days
Venus	224.70 Earth Days
Earth	365.25 Earth Days
Mars	686.98 Earth Days
Jupiter	4332.82 Earth Days
Saturn	10,755.70 Earth Days
Uranus	30,687.15 Earth Days
Neptune	60,190.03 Earth Days

Did you know?

People used to think the Earth was flat! Around 350bc, a scientist named Aristotle provided evidence that it was actually a sphere.

Key Vocabulary

dwarf planet – a small planet
friction – the force that acts upon one surface when it moves against another
gravity – a pull force that acts at a distance
orbit – the curved path around a star, planet or moon
planet – an object in space that orbits a star
pull – to move something towards
push – to move something away
Solar System – the name given to our sun and 8 planets and their moons
star – an object in space made of luminous plasma (bright gas) held together by its own gravity

Moons

We are not the only planet with a moon.
Some planets have more moons than us!
Mercury and Venus – 0 moons
Earth – 1 moon
Mars – 2 moons
Jupiter – 79 moons
Saturn – 82 moons
Uranus – 27 moons
Neptune– 14 moons

Tuesday P7

B

Look at the table on page 138.

1. Which planets are moonless?
2. In the table year lengths are rounded to the nearest whole day. Give the actual length of Earth's year correct to 2 decimal places.
3. Which planet is closest to the Earth:
   a) in size (diameter)
   b) in length of day
   c) in length of year?
4. Which planet is:
   a) furthest from the Sun
   b) closest to the Sun?

5. Which planet is:
   a) coldest
   b) hottest?
6. Which planet has:
   a) the longest day
   b) the shortest day?
7. Which two planets have a diameter approximately four times that of Earth?
8. What is the difference between the maximum and minimum temperatures:
   a) on Mercury
   b) on Earth
   c) on Mars?
9. How many planets have:
   a) a shorter year than Earth
   b) a shorter day than Earth?

VOCABULARY LABORATORY

Explain meaning / Definition:

Use in a sentence (add picture too)**:**

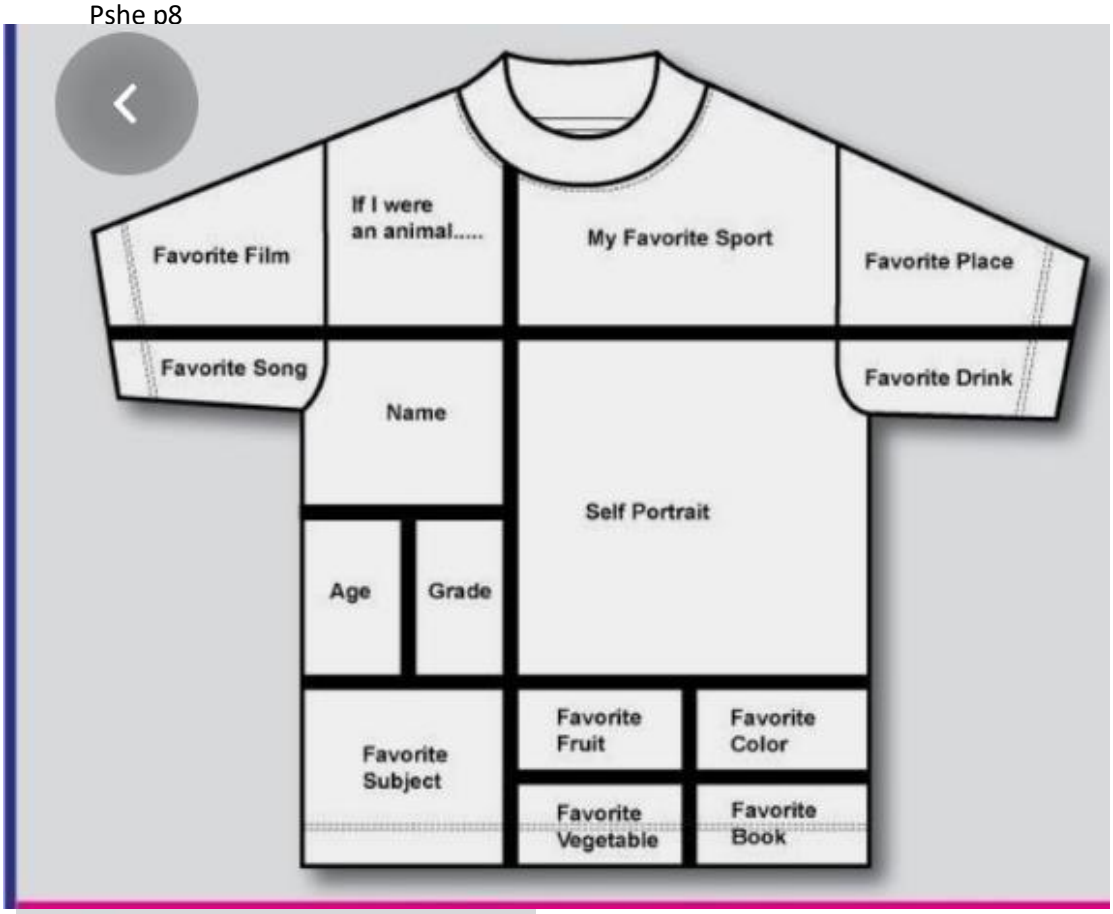
Modification:

Modify to past tense, present, plural singular, add prefix or suffix etc. How many forms can you think of?

Synonyms

Antonyms

Pshe p8


Favorite Film
If I were an animal.....
My Favorite Sport
Favorite Place
Favorite Song
Name
Favorite Drink
Self Portrait
Age
Grade
Favorite Subject
Favorite Fruit
Favorite Color
Favorite Vegetable
Favorite Book


All about Me
name
liked to be called
top goal
best hobby
age
my family
best food
favorite animal
favorite color
best subject
dream destination
I love
I don't like


best book ever
doodle lines here
draw circles here
my name
my age
draw triangles here
take a line for a walk
self portrait
favorite song
birthday date
favorite sport
draw squares here
favorite colour
doodle here
best food
colour this

Wednesday P 12

Summer Holiday Code Breaker

Solve the calculations and use the code breaker to spell out the summer-themed words.

A	B	C	D	E	F	G	H	I	J	K	L	M
26	25	24	23	22	21	20	19	18	17	16	15	14

N	O	P	Q	R	S	T	U	V	W	X	Y	Z
13	12	11	10	9	8	7	6	5	4	3	2	1

	Answer	Letter
72 ÷ 9		
Half of 12		
27 - 14		
100 - 81		
Double 13		
700 ÷ 100		

	Answer	Letter
55 ÷ 5		
3 × 6		
235 - 211		
130 ÷ 10		
36 ÷ 2		
4 × 6		
75 ÷ 3		
3 × 5		
60 - 34		
78 - 65		
5 + 7 + 4		
$\frac{2}{3}$ of 33		
49 ÷ 7		

	Answer	Letter
50 - 32		
Half of 48		
66 ÷ 3		

	Answer	Letter
99 - 91		
171 - 158		
60 ÷ 5		
108 ÷ 12		
$\frac{1}{2}$ of 20		
7 + 8 + 7		
45 ÷ 3		

	Answer	Letter
3 × 7		
2 × 9		
48 ÷ 6		
$\frac{1}{2}$ of 38		
3 × 6		
39 ÷ 3		
100 ÷ 5		
63 ÷ 7		
84 ÷ 7		
92 ÷ 4		

All About Me Transition Code Breaker Creator

Create calculations for a partner to solve in order to tell them something about you. Decide on 26 **two-digit numbers** that you want to use for your calculations and fill in the table below.

A	B	C	D	E	F	G	H	I	J	K	L	M

N	O	P	Q	R	S	T	U	V	W	X	Y	Z

What is your nickname?

	Answer	Letter

What do you enjoy doing out of school?

	Answer	Letter

What is your favourite colour?

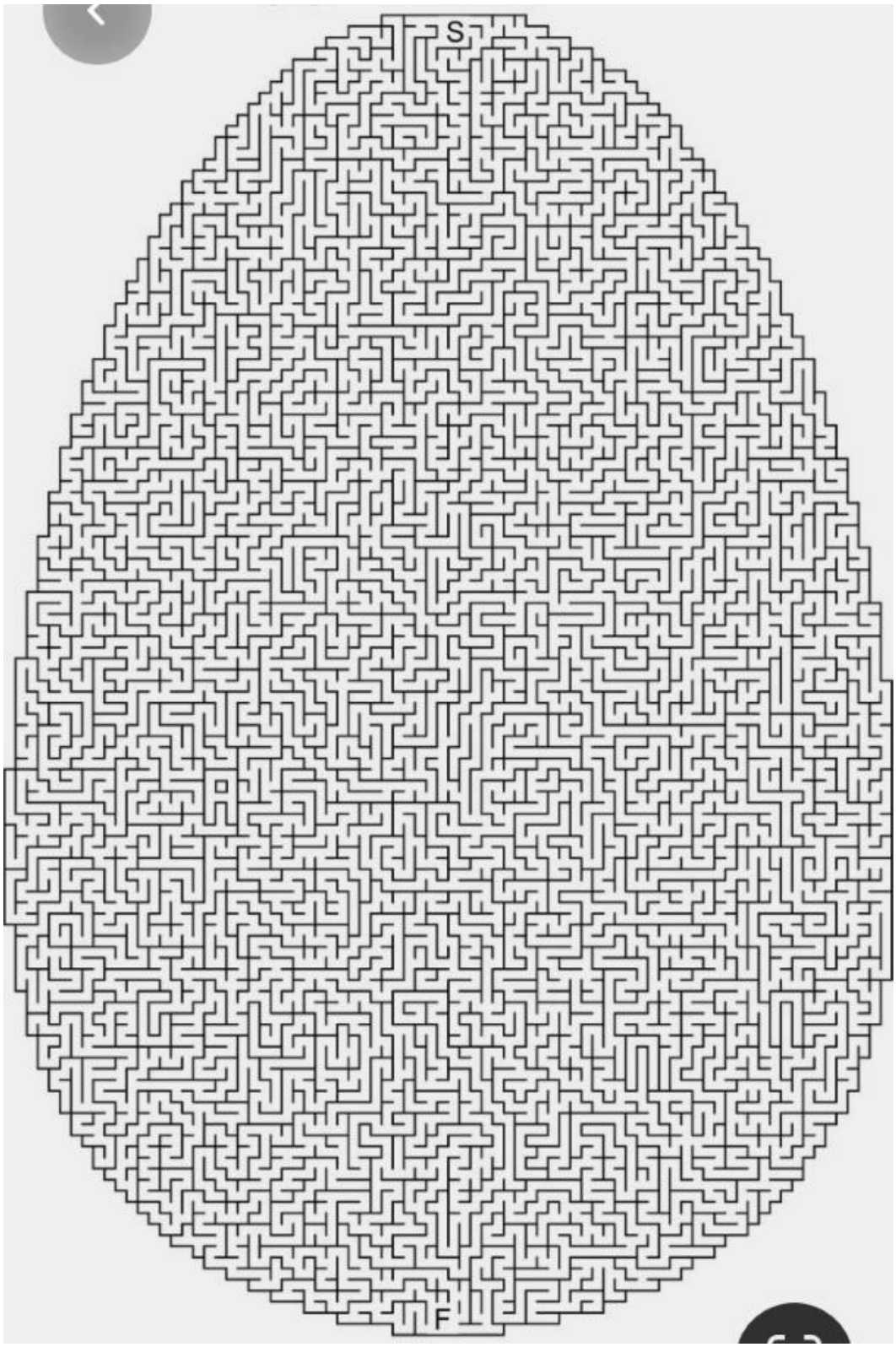
	Answer	Letter

What is your favourite subject in school?

	Answer	Letter

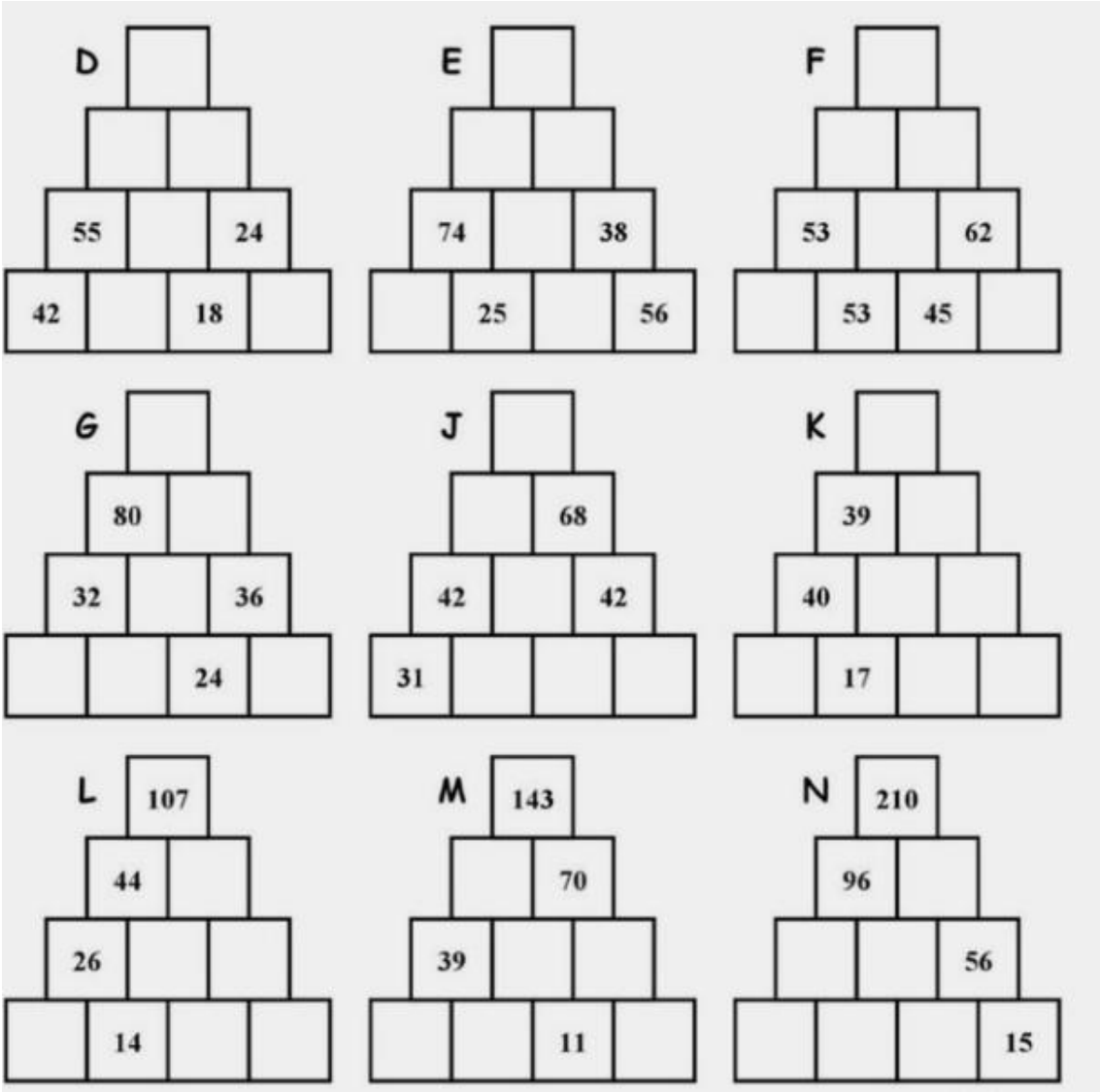
Thursday (p14-16)

Maths

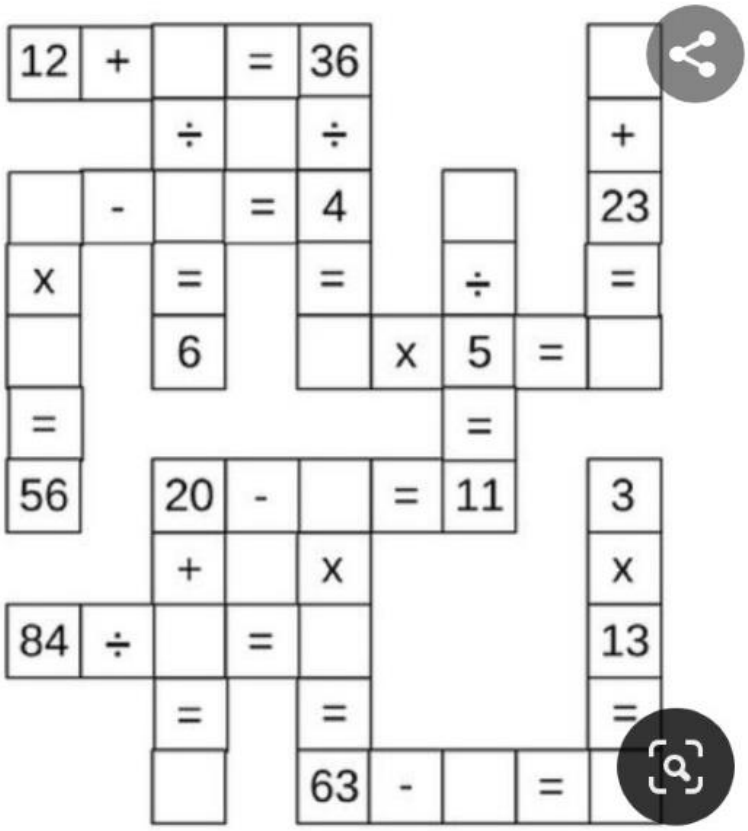


Complete the maze from start (labelled S) to finish (labelled F) it will take patience, planning and persistence.

Solve the pyramid calculations.



Solve the crosscalculation – it is like a cross word but uses equations instead. Lots of fun!


12 + = 36
÷ ÷ +
- = 4 23
x = = ÷ =
6 x 5 =
= =
56 20 - = 11 3
+ x x
84 ÷ = 13
= = =
63 - =