Friday 10th July 2020

HAAAPPPPYYYY FFFRRRIIIDDDAAAYYY!!!! Hello everyone – let's start Friday with a joke!

Here are yesterday's maths answers – how did you do?

1 **B** — Angle w is smaller than a right angle but larger than half of a right angle ($90° \div 2 = 45°$), so it must be 60° — option B.

2 **131°** — Angles on a straight line add up to 180°, so $S = 180° - 49° = 131°$.

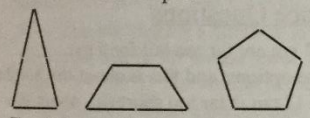
3 **302°** — Angles in a triangle add up to 180°, so the missing angle in this triangle is $180° - 38° - 84° = 58°$. This angle is around a point with angle x, so these two angles must add up to 360°. So angle x is $360° - 58° = 302°$.

4 **D** — Obtuse angles measure more than 90° but less than 180°, so three obtuse angles together must measure more than $90° \times 3 = 270°$. Angles around a point add up to 360°, so angle k must measure less than $360° - 270° = 90°$. The only option less than 90° is D — 73°.

5 **44°** — First, look at the quadrilateral made up of the outside edges of the diagram. The angles in a quadrilateral add up to 360°, so the top angle must be $360° - 68° - 122° - 51° = 119°$. This angle is made up of angle y and a 75° angle, so angle y is $119° - 75° = 44°$.

6 **C** — The shape has six sides, so it is a hexagon.

7 **D** — She would need at least six sticks to make a rectangle, since the smallest rectangle would have two sides made up of one stick each and two sides made up of two sticks each — $1 + 1 + 2 + 2 = 6$. The diagram below shows how she could make the other shapes.



8 **B** — The outside edge of a circle is called the circumference.

9 **1** — A kite has 2 pairs of equal sides and 2 equal angles, so it has 1 pair of equal angles.

10 **120 mm** — The diameter is twice the radius, so the radius is $240 \div 2 = 120$ mm.

11 **76°** — The angles in a triangle add up to 180°, so the two missing angles must add up to $180° - 28° = 152°$. The triangle is isosceles, so these two angles are equal. So each of them is $152° \div 2 = 76°$.

12 **120°** — Angle b is around a point with four angles in equilateral triangles. Each angle in an equilateral triangle is 60°, so these four angles add up to $60° \times 4 = 240°$. Angles around a point add up to 360°, so angle b is $360° - 240° = 120°$.

13 **C** — A square has four equal sides and four equal angles, so it is a regular quadrilateral. All of the other options have at least one side or angle that is different in size, so they are irregular quadrilaterals.

14 **12 cm** — A regular heptagon has seven equal sides, so each side is $84 \div 7 = 12$ cm long.

15 **4** — First, find the perimeter of the pitch. $70 + 130 + 70 + 130 = 400$ m, so he needs to paint 400 m of lines. So he needs $400 \div 100 = 4$ cans.

16 **21**

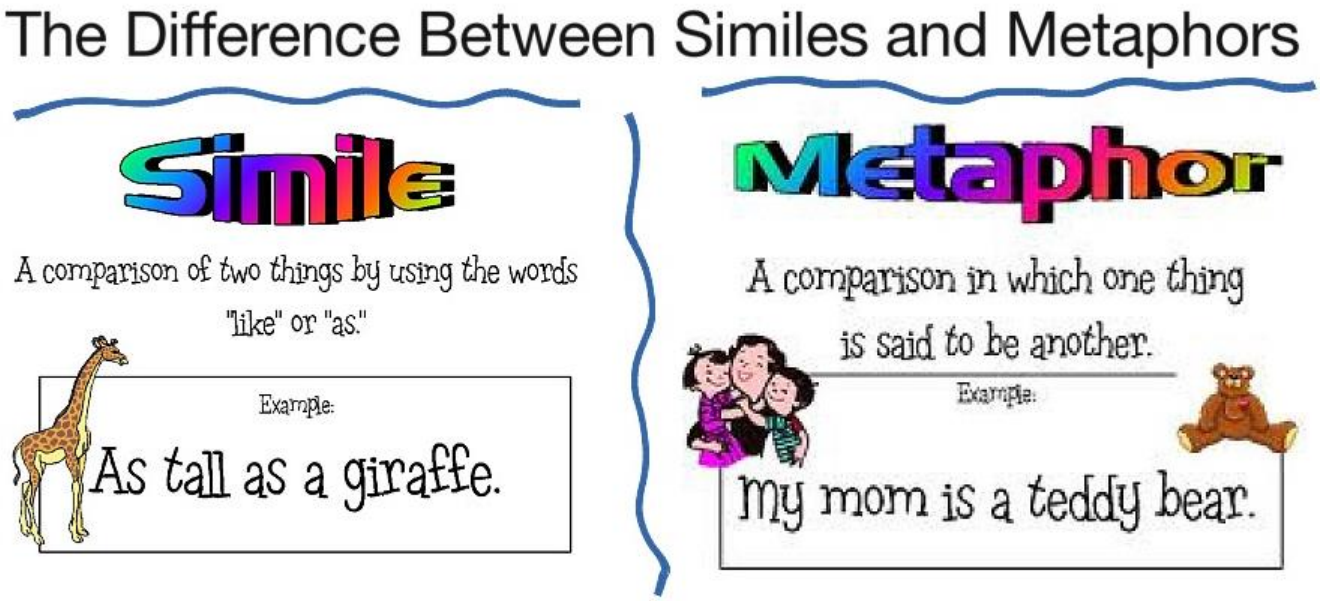
Today's Maths – Arithmetic Friday!

Let's get going on another set of Arithmetic questions!

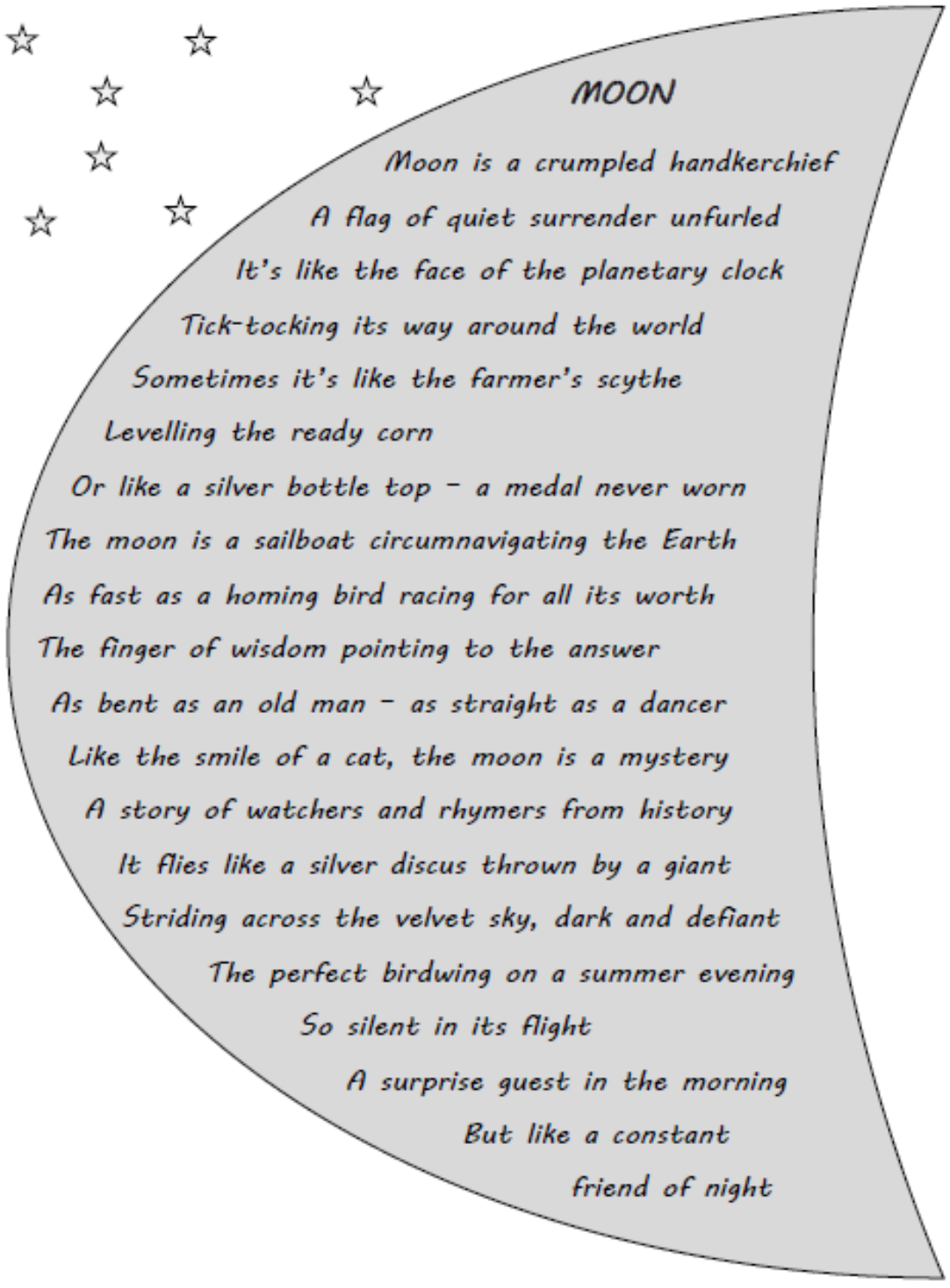
1. 12 x _____ = 600
2. 25.5 x 10 = _____
3. Calculate: 100 – (3 x 10 x 2) = _____
4 Change 55 % into a fraction: = ……
5. What is the change from £20 after buying 5 books at £1.42 each?
6. Circle the two prime numbers: 21 8 17 19
7. Round 78,945 to the nearest 10 thousand . _____
8. Round 6.811 kg to nearest whole kg. _____kg
9. 246 ÷ 6 = _____ 10. 6300 divided by 9 =_____

11. Two angles of a triangle are 65° and 40°.
What is the size of the third angle? _____ degrees
12. Find the change from £5 after buying
0.7kg of apples at 18p per 100g. £_____
13. 56 x 72
14. If 6a – 2 = 16, what is the value of a ? _____
15. If the time is 10.32 pm. How many minutes until it is 11.05 pm? _____ min.
16. 3 x 40 x 10 = _____ 17. 2435 – 798 = _____
18. The three angles of a quadrilateral are 100°, 140°, 60°.
What is the size of the other angle?
19. if n = 12 = What is 6n + 5?
20. Mr Thompson thinks of a number, he squares it then adds 6. His answer was 70. What number did he start with?
21. 579 x 67 =
22. A regular hexagon has a side that measures 7.5cm – what is the perimeter of the shape?
23. 6 – 1.678 =
24. 0.7 + 0.06 + 0.67 =
25. What is 2/3 of 512?
26. 16,283 ÷ 19 =
27. 0.19 x 1000 =
28. Write 9% as a decimal
29.find 1/5 of 30,000
30. Add 7/8 and 1/3 =

English Task – Similes and Metaphors



Here is a poem about the moon comparing it to different things, using a mixture of metaphors and similes. After you've read it, decide whether the things it's compared to are metaphors or similes. Then **tick** the correct boxes.



MOON

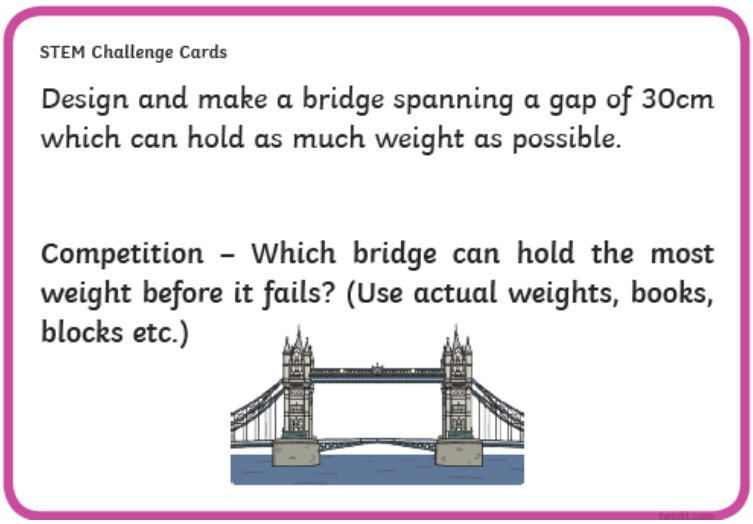
Moon is a crumpled handkerchief
A flag of quiet surrender unfurled
It's like the face of the planetary clock
Tick-tocking its way around the world
Sometimes it's like the farmer's scythe
Levelling the ready corn
Or like a silver bottle top – a medal never worn
The moon is a sailboat circumnavigating the Earth
As fast as a homing bird racing for all its worth
The finger of wisdom pointing to the answer
As bent as an old man – as straight as a dancer
Like the smile of a cat, the moon is a mystery
A story of watchers and rhymers from history
It flies like a silver discus thrown by a giant
Striding across the velvet sky, dark and defiant
The perfect birdwing on a summer evening
So silent in its flight
A surprise guest in the morning
But like a constant
friend of night

On the next page identify the language features in the poem deciding whether they are similes or metaphors. You may need to read the phrase or word in context to help you understand. Draw the table in your book.

Now decide whether the words and phrases in the table are part of a metaphor or a simile and put a **tick** in the correct box. Do you remember the difference between a simile and metaphor?

word or phrase	metaphor	simile
crumpled handkerchief		
flag of quiet surrender		
face of the planetary clock		
farmer's scythe		
silver bottle top		
medal		
sailboat		
homing bird		
finger of wisdom		
old man		
dancer		
smile of a cat		
mystery		
story of watchers and rhymers		
silver discus		
perfect birdwing		
surprise guest		
constant companion		

Task 3 – Topic – DT – Construction.



Have a go at the challenge above. I want you to build a bridge from junk! Use cardboard boxes / things in you recycling bags and build a bridge that spans 30 cm and can hold some weight without collapsing. You may want to use glue / sticky tape / masking tape / string / newspaper / lollipop sticks etc. to help with your construction.

Email me your results. yearsix@blowers.dudley.sch.uk

Have fun, enjoy your weekend – Mr Thompson