

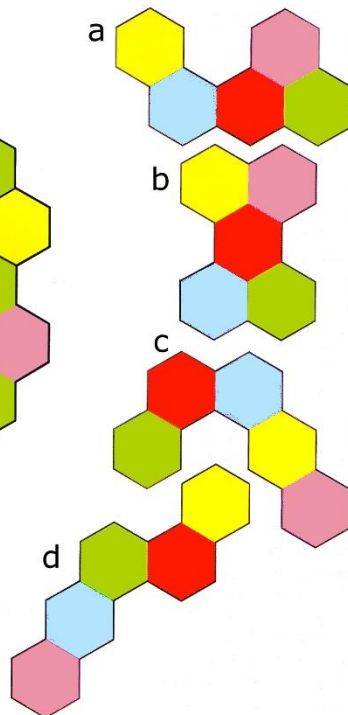
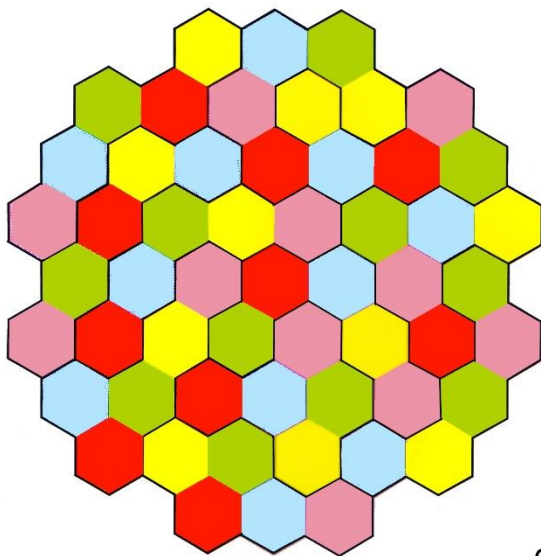


June 2018

BONUS PUZZLES

PENTAHEXES

1.



A pentahex is a shape formed by joining five regular hexagons. The honeycomb on the left has been made by assembling eleven pentahexes.

To make it easier, each pentahex in the honeycomb has been outlined with a black boundary.

Which three of the four pentahexes, **a**, **b**, **c** and **d** have been used in making up the honeycomb? (They can be rotated to fit)

2.

EEEE**LL****N****P****SSSSS**

What English word contains, four **E**'s, two **L**'s, one **N**, one **P** and five **S**'s?

3.

You're the Voice

In the table below, actors and animated movies are listed in alphabetical order. Pair each star with the correct movie.

Billy Crystal	<i>Chicken Run</i>
George Clooney	<i>Fantastic Mr Fox</i>
Johnny Depp	<i>Happy Feet</i>
Mel Gibson	<i>Madagascar</i>
Tom Hanks	<i>Monster Inc</i>
Jeremy Irons	<i>Shrek</i>
Hugh Jackman	<i>Sinbad, Legend of the Seven Seas.</i>
Eddie Murphy	<i>Sponge Bob Square Pants</i>
Brad Pitt	<i>The Lion King</i>
Ben Stiller	<i>Toy Story</i>

4.



CROSSWORD CLUES (1)



- (a) Neuter _ **P** _ **Y**
- (b) Spread out; Clumsy, awkward _ **P** _ _ **Y**
- (c) Uncaring attitude _ **P** _ _ _ **Y**
- (d) Honey Farm _ **P** _ _ _ **Y**
- (e) Sea Eagle _ _ **P** _ _ **Y**
- (f) Word or name derived from the name of a person _ **P** _ _ **Y** _
- (g) Supply, furnish, advertise or circulate **P** _ _ _ _ **Y**
- (h) Gentle breeze _ _ **P** _ **Y** _
- (i) Tube connecting mouth with oesophagus **P** _ _ _ **Y** _ _
- (j) Circle whose center moves along the circumference of a larger circle
_ **P** _ _ **Y** _ _ _

5.

Vegetable numerology

Assign every letter of the alphabet a number so that **A**=1, **B**=2, **C**=3 and so on. The word **CAB** would then be worth 3 + 1 + 2 = 6

Now arrange these vegetables from lowest score to highest; **carrot, cabbage, leek, pea**

6. JIMMIES

Given a brief CV, Supply the surname of each of the following famous people of the given name Jimmy.

- a. He was 39th president of the United States.
- b. He was head of the American Teamsters union who disappeared mysteriously from a motel car park in the 1970s.
- c. He was an Australian Aboriginal musician, actor and teacher who died in April 2012 at the age of 75.
- d. He lead a surprise bomber raid on Japan in 1942.
- e. He was a film actor between 1932 and 1991 and a World War II and Vietnam War veteran who rose to the rank of Brigadier General in the United States Air Force Reserve.
- f. His song *By the Time I Get to Phoenix* was the third most performed song in the years 1960 to 1990.
- g. He was the drummer who temporarily replaced Ringo Starr during the Beatles tour of Australia in 1964.
- h. He is an Australian rock singer-songwriter whose father Jim was a prizefighter and whose older brother John is also a rock singer.
- i. He is an American actor, comedian, singer, musician and host of *Late Night* on American TV. Prior to that, he was in the cast of *Saturday Night Live* from 1998–2004, appeared in several films.
- j. He is a retired Australian variety show host who won the 1965 Gold Logie.

7. Rhyme Time

Convert each of the following descriptions into a pair of rhyming words.
For example, *a person who hangs around downstairs* is a CELLAR DWELLER

- a. More magnificent male gaggle member
- b. Uninteresting tiles or carpets
- c. Alien peril
- d. Almost annually
- e. Alternate sibling
- f. Phantom-like, as a general rule
- g. Less happy snake
- h. Arctic tooth
- i. Barn tale
- j. Congenial grouse

8.



Figure It Out (1)

Split 45 into four smaller numbers, **A**, **B**, **C** and **D** so that if you add two to **A**, subtract two from **B**, multiply **C** by two and divide **D** by two you get the same answer in each case.

Write down the value of A, B, C and D

9.

UNJUMBLE

Unjumble each of these three phrases to form a word. The three answers are names from the same list.

Austria gigs
I'm Geni
Coop, Sir?
Spices

10.  **Figure It Out (2)**

A farmer is asked how many animals he owns. He replies:

All sheep but three, all goats but four and all horses but five

How many animals, and how many of each animal does he own?

11. **LETTER PATTERN**

Five of the six pairs of letters below belong, and their pattern is consistent. One pair of letters does not fit the pattern. Can you tell which pair does not belong?

CI, GM, PV, NT, BH, TW

12.  **CROSSWORD CLUES (2)** 

(a) *Simple song* **D _ _ T _**

(b) *Very skilled* **_ D _ _ T**

(c) *Scrutinise, take stock* **_ _ D _ T**

(d) *Rare, strange or unusual object* **_ D _ _ T _**

(e) *Tranquillise* **_ _ D _ T _**

(f) *Version, variant* **_ D _ T _ _ _**

(g) *Absurd, derisory* **_ D _ _ T _ _**

(h) *Arbitrate, intercede* **_ _ D _ _ T _**

(i) *Learned, scholarly* **_ _ _ D _ T _**

(j) *Extensiveness* **_ _ _ _ D T _**

13.



Figure It Out (3)

A house painter was asked to mix 6 litres of gray in the ratio of two parts white to one part black.

By mistake, he mixes 4 litres of black with two litres of white.

He decides to pour away some of the incorrect mixture and to correct the remainder by adding sufficient volume of white paint to achieve 6 litres of gray paint in a 2:1 white:black ratio.

What is the minimum volume he needs to pour away?

14.

Common Thread

Look at these 12 words. What connects them?

Alien, avenue, asteroid, eastern ebony, icon, ideal, islander, opinion, orange, ovary, unit.

15.



CROSSWORD CLUES (3)



- (a) *Freight* **C** _ _ **G** _
- (b) *Beg, scrounge* **C** _ _ **G** _
- (c) *Club* **C** _ _ **G** _ _
- (d) *Idyll, Pastorage* _ **C** _ _ **G** _ _
- (e) *Ten sided figure* _ _ **C** _ **G** _ _
- (f) *That toddlin' town* _ _ _ **C** _ **G** _
- (g) *Havoc, slaughter* **C** _ _ _ _ **G** _
- (h) *Lash* _ **C** _ _ _ **G** _
- (i) *Relating to marriage* **C** _ _ _ _ **G** _ _
- (i) *Identity concealed* _ _ **C** _ **G** _ _ _ _

ANSWERS:

1. a, c & d
2. Sleeplessness
3. Billy Crystal – *Monsters Inc*; George Clooney – *Fantastic Mr Fox*; Johnny Depp – *Sponge Bob Square Pants*; Mel Gibson – *Chicken Run*; Tom Hanks – *Toy Story*; Jeremy Irons – *The Lion King*; Hugh Jackman – *Happy Feet*; Eddie Murphy – *Shrek*; Brad Pitt = *Sinbad, Legend of the Seven Seas*; Ben Stiller - *Madagascar*
4. a. spay b. splay c. apathy d. apiary e. osprey f. eponym
g. purvey h. zephyr i. pharynx j. epicycle
5. Cabbage(21), pea(22), Leek(33), carrot(75)
6. a. Carter b. Hoffa c. Little d. Doolittle e. Stewart f. Webb g. Nichol
h. Barnes i. Fallon j. Hannan
7. a. grander gander b. boring flooring c. stranger danger d. nearly yearly
e. other brother f. mostly ghostly g. sadder adder h. polar molar
i. stable fable j. pleasant pheasant
8. **A** = 8, **B** = 12, **C** = 5 and **D** = 20
9. Sagittarius, Gemini, Scorpio, Pisces
10. 3 sheep + 2 goats + 1 horse = 6 animals in total
11. TW is the odd pair. In all the other pairs, the two letters are the same distance apart in the alphabet. T and W are much closer together
12. a. ditty b. adept c. audit d. oddity e. sedate f. edition g. idiotic
h. mediate i. erudite j. breadth
13. 3 litres
14. For "*They all start with a vowel*" - 1 point
For "*If you remove the first letter you are still left with a word*" - 2 points
15. a. cargo b. cadge c. cudgel d. eclogue e. decagon f. Chicago
g. carnage h. scourge i. conjugal j. incognito