



VIC SKEPTICS BONUS PUZZLES January 2018

1. Destinations

In the table below, column 2 contains the name of a city
Column 3 contains the name of the country which is your destination.

Use **some** of the letters from the city in column 2 to discover what city in column 3's country you are travelling to. The first one is an example

example	LOS ANGELES	Nigeria	LAGOS
(a)	SAINT PETERSBURG	France	
(b)	INDIANAPOLIS	Italy	
(c)	REKJAVIK	Ukraine	
(d)	VLADIVOSTOK	Norway	
(e)	JOHANNESBURG	Germany	

2. CROSSWORD CLUES

- (a) *Literally "the buttocks" OR idiot (British slang)* **P _ _ A _ _**
- (b) *Public square* **P _ _ A _ _ _**
- (c) *Empty, foolish, or trivial talk; idle chatter* **P _ _ A _ _ _**
- (d) *Song of joyful praise or exultation.* **P _ _ _ A _ _**
- (e) *Relating to legal punishment* **P _ _ _ A _ _**
- (f) *Of, relating to, or having the characteristics of bees* **_ P _ _ A _ _**
- (g) *Small sea fish often canned in oil like a sardine* **_ P _ _ A _ _**
- (h) *Musical work* **_ P _ _ _ A _**
- (i) *Spread out awkwardly* **_ P _ _ A _ _**
- (i) *3D Curve in which all points are equidistant from a central axis*
_ P _ _ _ A _

Circular Zoo

3.



Using only strings of consecutive letters and going only in a clockwise direction, find the names of 10 animals in this ring.

4.



Figure It Out

- (a) What is the greatest number of Mondays that can occur between January 1st and February 14th of any year?
- (b) An ant carries 1 crumb on the first day and 1 crumb on the second day. On the third day it carries 2 crumbs, on the fourth day it carries 3 crumbs. On day five it carries 5 crumbs and on day six it carries 8 crumbs. According to this sequence, how many crumbs will the ant carry on the seventh day? Write your answer as a numeral.
- (c) How many legs are there altogether on 2 spiders and 3 crickets?
- (d) Six female dogs have 4 puppies each. Half of these puppies are female and grow up to also have 4 puppies each. How many dogs are there in total?
- (e) At a local farm there are 20 animals altogether. The interesting thing is that there are only chickens and donkeys. The farmer counts the legs and finds that there are 52 legs in total (not including his own). How many chickens are on the farm?

5.



CROSSWORD CLUES



- (a) *Sullen, gloomy* **D _ _ R**
- (b) *Scottish highlands weapon* **D _ R _**
- (c) *To object, to take exception* **D _ _ _ R**
- (d) *Whimsically humorous* **DR _ _ _**
- (e) *Lowest point* **_ _ D _ R**
- (f) *Sea Duck* **_ _ D _ R**
- (g) *Trained core group for a larger organization.* **_ _ DR _**
- (h) *Many-headed monster slain by Hercules* **_ _ DR _**
- (i) *Diviner, water-witcher, geomancer* **D _ _ _ _ R**
- (j) *Showing skill, cleverness, or resourcefulness* **_ DR _ _ _**

6.



A farmer keeps only four types of animals.

He has a total of 560 animals.

If he had ten sheep less, he would have twice as many sheep as he has cows.

If he had ten cows less he would have three cows for every pig, and he has two-and-one-half pigs to every horse.

- a. How many pigs does he have?
- b. How many horses does he have?
- c. If he swaps 75% of his cows for seven sheep per cow, how many animals will he have in total?

7. WORD MATCH

In each line below, match the word in capitals with that of the closest in meaning
Write that word down

- | | | | | | | |
|---|---------------------|-----------------|------------------|-----------------|-----------------|------------------|
| a | AGGRAVATE | <i>anger</i> | <i>insult</i> | <i>enrage</i> | <i>provoke</i> | <i>instigate</i> |
| b | EQUIVALENT | <i>alike</i> | <i>twin</i> | <i>equal</i> | <i>even</i> | <i>similar</i> |
| c | APPREHENSION | <i>distrust</i> | <i>misgiving</i> | <i>threat</i> | <i>wariness</i> | <i>hunch</i> |
| d | AMAZE | <i>bewilder</i> | <i>confuse</i> | <i>astonish</i> | <i>startle</i> | <i>stagger</i> |

8. *It's All Relative*

Alice organised a reunion of her relations. She invited:

- her mother**
- her mother's sister-in-law**
- her sister**
- her sister's mother-in-law**
- her mother-in-law's sister**
- her sister-in-law's mother**
- her next-door neighbour**

Counting Alice, what is the fewest number of people that could attend the party if all invitations were accepted? No illegal relationships are permitted!

9.



BARRELS of FUN



A wine merchant has six barrels containing respectively

- 300 litres**
- 320 litres**
- 360 litres**
- 380 litres**
- 400 litres**
- 620 litres**

Five barrels are filled with wine; one barrel is filled with beer.

The first customer purchases two barrels of wine.

The second customer purchases twice as much wine as the first customer.

Which barrel contains beer?

10.



CROSSWORD CLUES



- (a) *Support wrongdoing* **_ B _ T**
- (b) *Unit of currency* **B _ _ T**
- (c) *To deflect a projectile lightly* **B _ _ T**
- (d) *To moderate* **B _ T _**
- (e) *Liability* **_ _ B T**
- (f) *Isolated steep hill* **B _ _ T _**
- (g) *Sired* **B _ _ _ T**
- (h) *Leaf at the base of a flower* **B _ _ _ T**
- (i) *Toward the stern* **_ B _ _ T**
- (i) *Carved wooden shoe famously used to foul machinery* **_ _ B _ T**

ANSWERS:

1. a. Paris b. Pisa c. Kiev d. Oslo e. Bonn

2. (a) Prat, (b) Plaza, (c) Paeon, (d) Penal, (e) Apian, (f) sprat,
(g) opera, (h) sprawl, (i) spiral

3. toad, adder, rat, turtle, leech, char, hare, eel, lion, newt

4. (a) 7 (b) 13 (c) 34 (d) 78 (e) 14

5. a. dour b. dirk c. demur d. droll e. nadir f. eider g. cadre h. hydra
i. dowser j. adroit

6. a. 50 pigs b. 20 horses c. 1280 animals

7. a. provoke b. equal c. wariness d. astonish

8. Four: (this works if Alice's sister is married to Alice's husband's brother. The mother of both men is Alice's mother's sister and married to Alice's paternal uncle)

9. The 400 litre barrel:

(Customer 1 buys $300 + 360$ litres = 660 litres of wine.
Customer 2 buys $320 + 380 + 620 = 1320$ litres of wine.
This leaves the 400 litre barrel which must contain beer)

10. a. abet b. baht c. bunt d. bate e. debt f. butte g. begat
h. bract i. abaft j. sabot