Question 1

What is the airspeed velocity of an unladen swallow?



While this question leaves out the crucial element of the geographic origin of the swallow, according to Jonathan Corum, an unladen European swallow maintains a cruising airspeed velocity of **11 metres per second**, or **24 miles an hour**. The velocity of the corresponding African swallows requires further research as kinematic data is severely lacking for these species.

Question 2

How much wood would a woodchuck chuck if a woodchuck could chuck wood?

(a) Suppose "chuck" implies throwing.

According to the Associated Press (1988), a New York Fish and Wildlife technician named Richard Thomas calculated the volume of dirt in a typical 25–30 foot (7.6–9.1 m) long woodchuck burrow and had determined that if the woodchuck had moved an equivalent volume of wood, it could move "about **700 pounds (320 kg)** on a good day, with the wind at his back".

(b) Suppose "chuck" implies vomiting.

A woodchuck can ingest 361.92 cm³ (22.09 cu in) of wood per day. Assuming immediate expulsion on ingestion with a 5% retainment rate, a woodchuck could chuck **343.82 cm³** of wood per day.

Question 3

Identify the author of Equation 1 below and briefly describe it in English.

$$P(A|B) = \frac{P(B|A)P(A)}{P(B)} \tag{1}$$

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BONUS QUESTIONS

Question 4

The table below shows the nutritional consistencies of two sausage types. Explain their relative differences given what you know about daily adult nutritional recommendations.

Per 50g	Pork	Soy
Energy	760kJ	538kJ
Protein	7.0g	9.3g
Carbohydrate	0.0g	4.9g
Fat	16.8g	9.1g
Sodium	0.4g	0.4g
Fibre	0.0g	1.4g

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Question 5

Listing 1: Luftballons Perl Script

```
#!/usr/bin/perl
2
  use strict;
  use warnings;
  for (1..99) { print \$_." Luftballons\n"; }
6
  # This is a commented line
8
  my $string = "Hello World!";
10
11
   print $string."\n\n";
12
13
  $string =~ s/Hello/Goodbye Cruel/;
14
  print $string."\n\n";
16
17
  finale();
18
19
  exit;
20
21
  sub finale { print "Fin.\n"; }
```

(a) How many luftballons will be output by the Listing 1 above?

99 luftballons.

(b) Identify the regular expression in Listing 1 and explain how it relates to the anti-war sentiments found in the rest of the script.

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