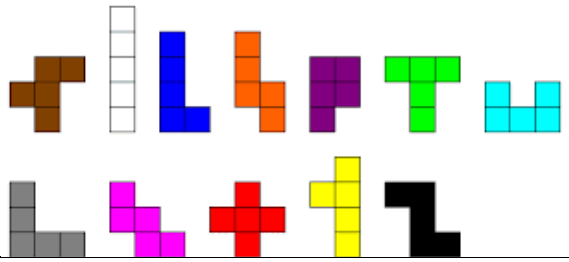
The Mathematical Zoo Answer Sheet

<table>
<tr><th>Animals</th><th colspan="4">Answers</th></tr>
<tr><td>Snakes</td><td colspan="4">Cobra = 88cm Adder = 44cm Viper = 68cm Boa Constrictor = 113cm</td></tr>
<tr><td>Camels</td><td colspan="4">There are 12 possible shapes for the camels' pen. They are:
  </td></tr>
<tr><td>Lions</td><td colspan="4">The weekend feeding times would be
a) Quarter past nine or 9.15am b) 12 o'clock, midday, noon or 12pm
c) Half past four, four thirty or 4.30pm d) Quarter to eight or 7.45pm</td></tr>
<tr><td>Elephants</td><td colspan="4">a) 15 visitors b) 35 visitors c) 70 visitors d) 150 visitors e) 13 days</td></tr>
<tr><td>Rhinos</td><td colspan="4">a) An answer that explains that they are both right as $\frac{2}{4}$ and $\frac{1}{2}$ are equivalent to each other.
b) 18 rhinos
c) $\frac{1}{3}$</td></tr>
<tr><td rowspan="2">Giraffes</td><td>a) 16 legs
<u>G</u> <u>F</u>
4 0
3 2
2 4
1 6
0 8</td><td>b) 22 legs
<u>G</u> <u>F</u>
5 1
4 3
3 5
2 7
1 9
0 11</td><td>c) 36 legs
<u>G</u> <u>F</u>
9 0
8 2
7 4
6 6
5 8
4 10
3 12
2 14
1 16
0 18</td><td>48 legs
<u>G</u> <u>F</u>
12 0
11 2
10 4
9 6
8 8
7 10
6 12
5 14
4 16
3 18
2 20
1 22
0 24</td></tr>
<tr><td colspan="4">Do the children spot the use of even and odd numbers in the flamingo answers? When they record their answers are the children able to follow the emerging pattern?
Extra question - After the 22 legs which number of legs would have an increasing odd number of flamingos? Can they explain how they know?</td></tr>
<tr><td>Birds of Prey</td><td colspan="4">a) The sharp shinned hawk
b) Sharp shinned hawk, booted eagle, falcon, buzzard, red-tailed hawk & vulture
c) Red-tailed hawk & the sharp shinned hawk
d) Falcon & vulture</td></tr>
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