

The Monkey Mystery at Animal Antics Zoo Maths Game

The Animal Antics Zoo is a popular tourist and school holiday venue. Harassed parents and excited children regularly fill the grounds, eager to see the enormous mountain gorillas, the cheeky baboons and the laughing chimps.

However, disaster has struck. Those troublesome primates have excelled themselves. One of them has sneakily taken the keys belonging to the senior keeper, and when no one was looking, has unlocked the enclosure and many monkeys have escaped! They are now causing mayhem around the zoo, pulling faces at the elephants, laughing at the leopards and flustering the usually unflappable flamingos!

But which monkey did the crime?

Your mission is to use the description of the monkeys to solve the clues so you can establish who let the pesky primates run riot at the zoo!



Description of suspects

Name	M/F	Type of Monkey	Favourite Food	Height (cm)	Special Feature
Ailsa	f	howler	fruit	86	friendly
Bobby	m	mandrill	fruit	94	sociable
Coco	m	mandrill	tree bark	91	sociable
Delilah	f	capuchin	seeds	55	noisy
Eric	m	howler	leaves	83	screeches
Frodo	m	baboon	leaves	60	friendly
Gimley	m	mandrill	fruit	91	noisy
Hattie	f	baboon	leaves	63	sociable
Ishmael	m	capuchin	seeds	56	noisy
Jimmy	m	howler	fruit	86	screeches
Kala	f	capuchin	seeds	57	noisy
Larry	m	mandrill	fruit	91	sociable
Mena	f	mandrill	fruit	90	screeches
Nobu	m	howler	leaves	85	sociable
Ophelia	f	howler	nuts	87	friendly
Piccu	m	mandrill	fruit	90	sociable
Rafe	m	mandrill	fruit	89	sociable
Si	m	capuchin	nuts	55	noisy
Tee Tee	f	baboon	leaves	61	sociable
Uri	m	howler	fruit	88	screeches
Veronica	f	capuchin	nuts	57	noisy
Wendy	f	baboon	leaves	62	noisy
Yoyo	f	mandrill	fruit	89	sociable
Zebedee	m	howler	nuts	87	sociable
Ash	m	mandrill	fruit	92	sociable
Billy	m	howler	fruit	87	friendly
Cecil	m	capuchin	fruit	58	friendly
Dave	m	capuchin	nuts	56	noisy
Esher	f	baboon	leaves	64	friendly
Fifi	f	mandrill	tree bark	91	sociable

Clue 1: Zoo True or False?

Work out if these statements are true or false.

	True	False
If there are four enclosures each holding eight lemurs, there must be thirty-two lemurs altogether.		
One side of a pentagonal enclosure measures 18m. The perimeter must be 108m.		
0.25 equals $\frac{1}{4}$.		
XIX is the same as 18.		
$218 - 89 = 119$		
The giraffes have 24kg of food. They eat half. The remainder would be 12 000g.		
The penguin enclosure is closed for $\frac{1}{4}$ of the year. That means it is closed for four months.		
A child's ticket to the zoo costs £14.45. An adult's ticket costs £19.40. For two adults and one child, the price will be £53.25.		
Annual membership to the zoo for one adult costs £60. That works out at £5 a month.		

If there are more true answers, the mischievous monkey is male.

If there are more false answers, it is female.

Tick one

male

female

Clue 2: Divide and Conquer!

1. $210 \div 10 = \underline{\hspace{2cm}}$

5. $3 \div 10 = \underline{\hspace{2cm}}$

2. $3000 \div 10 = \underline{\hspace{2cm}}$

6. $7 \div 10 = \underline{\hspace{2cm}}$

3. $270 \div 10 = \underline{\hspace{2cm}}$

7. $300 \div 100 = \underline{\hspace{2cm}}$

4. $27 \div 100 = \underline{\hspace{2cm}}$

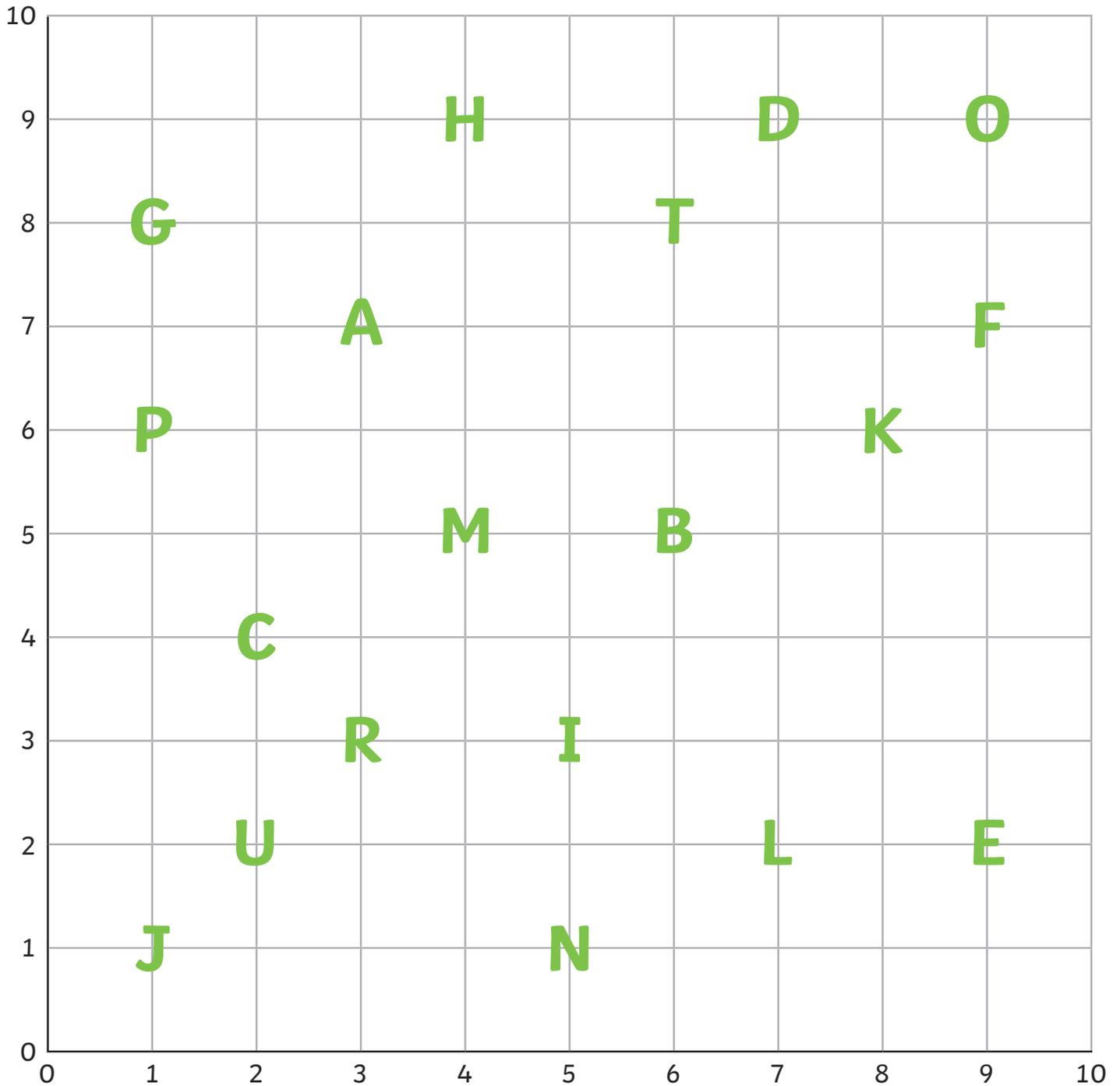
8. $21 \div 100 = \underline{\hspace{2cm}}$

0.1 keys	0.03 friendly	0.7 mischievous	27 creature
0.3 is	3000 primate	2.1 noisy	21.7 leaves
0.27 monkey	21 a	30 seeds	300 very
3 the	0.07 screeches	0.027 fruit	0.21 sociable

Answer: _____.

Clue 3: Along the Landing and Up the Stairs

Those cheeky monkeys have hidden the next clue in the coordinates. Use the grid below to solve the third clue.



(9,2)	(6,8)	(2,2)	(6,8)	(3,7)	(3,3)	(5,3)	(9,7)
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Two words: _____.

Clue 4: Feeding Time at the Zoo

Convert the 12-hour clock times to 24-hour clock times.

Then use the words below to solve the fourth clue.

Animals	12-hour clock	24-hour clock
elephants	3.45 p.m.	
tigers	2 p.m.	
chimpanzees	1.25 p.m.	
penguins	2.30 p.m.	
bear	4.15 p.m.	
meerkats	4 p.m.	
seals	3.40 p.m.	
lemurs	5.20 p.m.	

16.40 wasn't	13.00 capuchin	15.45 was	13.40 height
14.00 keys	15.40 who	16.16 baboon	17.20 mandrill
16.15 the	12.40 short	14.30 stole	30.30 lost
14.40 howler	13.25 monkey	13.30 dropped	16.00 a

Answer: _____.

Clue 5: How Tall is the Monkey?

Solve these statements. Whichever answer occurs the most frequently is the height of the cheeky monkey.

$$\begin{array}{r} 1. \quad \times \quad 23 \\ \quad \quad 4 \\ \hline \\ \hline \\ \hline \end{array}$$

$$2. \quad 178 \div 2 = \underline{\hspace{2cm}}$$

$$\begin{array}{r} 3. \quad + \quad 42 \\ \quad \quad 49 \\ \hline \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad \times \quad 47 \\ \quad \quad 2 \\ \hline \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad - \quad 121 \\ \quad \quad 27 \\ \hline \\ \hline \\ \hline \end{array}$$

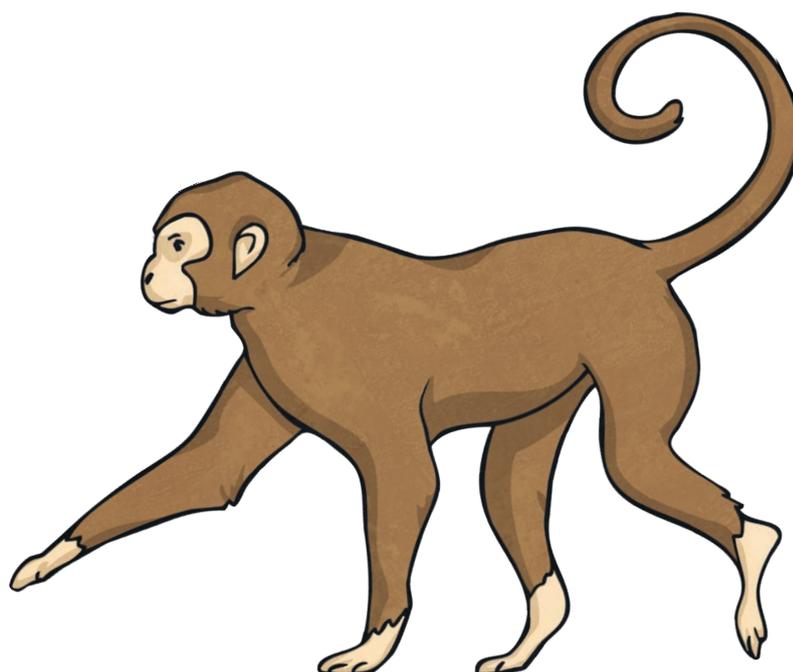
$$\begin{array}{r} 6. \quad - \quad 564 \\ \quad \quad 475 \\ \hline \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad - \quad 1000 \\ \quad \quad 908 \\ \hline \\ \hline \\ \hline \end{array}$$

$$8. \quad 184 \div 2 = \underline{\hspace{2cm}}$$

The most frequent answer is: _____.

Therefore, _____ is the mischievous monkey who stole the keys and let the other animals out!



Clue 1: Zoo True or False?

Answers

	true	false
If there are four enclosures each holding eight lemurs, there must be thirty-two lemurs altogether.	✓	
One side of a pentagonal enclosure measures 18m. The perimeter must be 108m.		✓
0.25 equals $\frac{1}{4}$.	✓	
XIX is the same as 18.		✓
$218 - 89 = 119$		✓
The giraffes have 24kg of food. They eat half. The remainder would be 12 000g.	✓	
The penguin enclosure is closed for $\frac{1}{4}$ of the year. That means it is closed for four months.		✓
A child's ticket to the zoo costs £14.45. An adult's ticket costs £19.40. For two adults and one child, the price will be £53.25.	✓	
Annual membership to the zoo for one adult costs £60. That works out at £5 a month.	✓	

There are more true answers. The monkey is male.

Clue 2: Divide and Conquer! **Answers**

$1. 210 \div 10 = \mathbf{21}$

$5. 3 \div 10 = \mathbf{0.3}$

$2. 3000 \div 10 = \mathbf{300}$

$6. 7 \div 10 = \mathbf{0.7}$

$3. 270 \div 10 = \mathbf{27}$

$7. 300 \div 100 = \mathbf{3}$

$4. 27 \div 100 = \mathbf{0.27}$

$8. 21 \div 100 = \mathbf{0.21}$

0.1 keys	0.03 friendly	0.7 mischievous	27 creature
0.3 is	3000 primate	2.1 noisy	21.7 leaves
0.27 monkey	21 a	30 seeds	300 very
3 the	0.07 screeches	0.027 fruit	0.21 sociable

The mischievous monkey is a very sociable creature.

Clue 3: Along the Landing and Up the Stairs **Answers**

Eat Fruit

Clue 4: Feeding Time at the Zoo **Answers**

16.40 wasn't	13.00 capuchin	15.45 was	13.40 height
14.00 keys	15.40 who	16.16 baboon	17.20 mandrill
16.15 the	12.40 short	14.30 stole	30.30 lost
14.40 howler	13.25 monkey	13.30 dropped	16.00 a

Monkey who stole the keys was a mandrill.

Clue 5: How Tall is the Monkey? **Answers**

$$\begin{array}{r} 1. \quad \times \quad 23 \\ \quad \quad \quad 4 \\ \hline \quad \quad \quad \mathbf{92} \end{array}$$

$$2. \quad 178 \div 2 = \mathbf{89}$$

$$\begin{array}{r} 3. \quad + \quad 42 \\ \quad \quad \quad 49 \\ \hline \quad \quad \quad \mathbf{91} \end{array}$$

$$\begin{array}{r} 4. \quad \times \quad 47 \\ \quad \quad \quad 2 \\ \hline \quad \quad \quad \mathbf{94} \end{array}$$

$$\begin{array}{r} 5. \quad - \quad 121 \\ \quad \quad \quad 27 \\ \hline \quad \quad \quad \mathbf{94} \end{array}$$

$$\begin{array}{r} 6. \quad - \quad 564 \\ \quad \quad \quad 475 \\ \hline \quad \quad \quad \mathbf{89} \end{array}$$

$$\begin{array}{r} 7. \quad - \quad 1000 \\ \quad \quad \quad 908 \\ \hline \quad \quad \quad \mathbf{92} \end{array}$$

$$8. \quad 184 \div 2 = \mathbf{92}$$

The most frequent answer is 92.

The mischievous monkey is Ash.