

Mystery at Eagleton Castle

Maths Game

It's the most awaited day of the year for the pupils of St. Owlson Academy. The Year 4 class is going to Eagleton Castle for their school trip and they cannot wait!

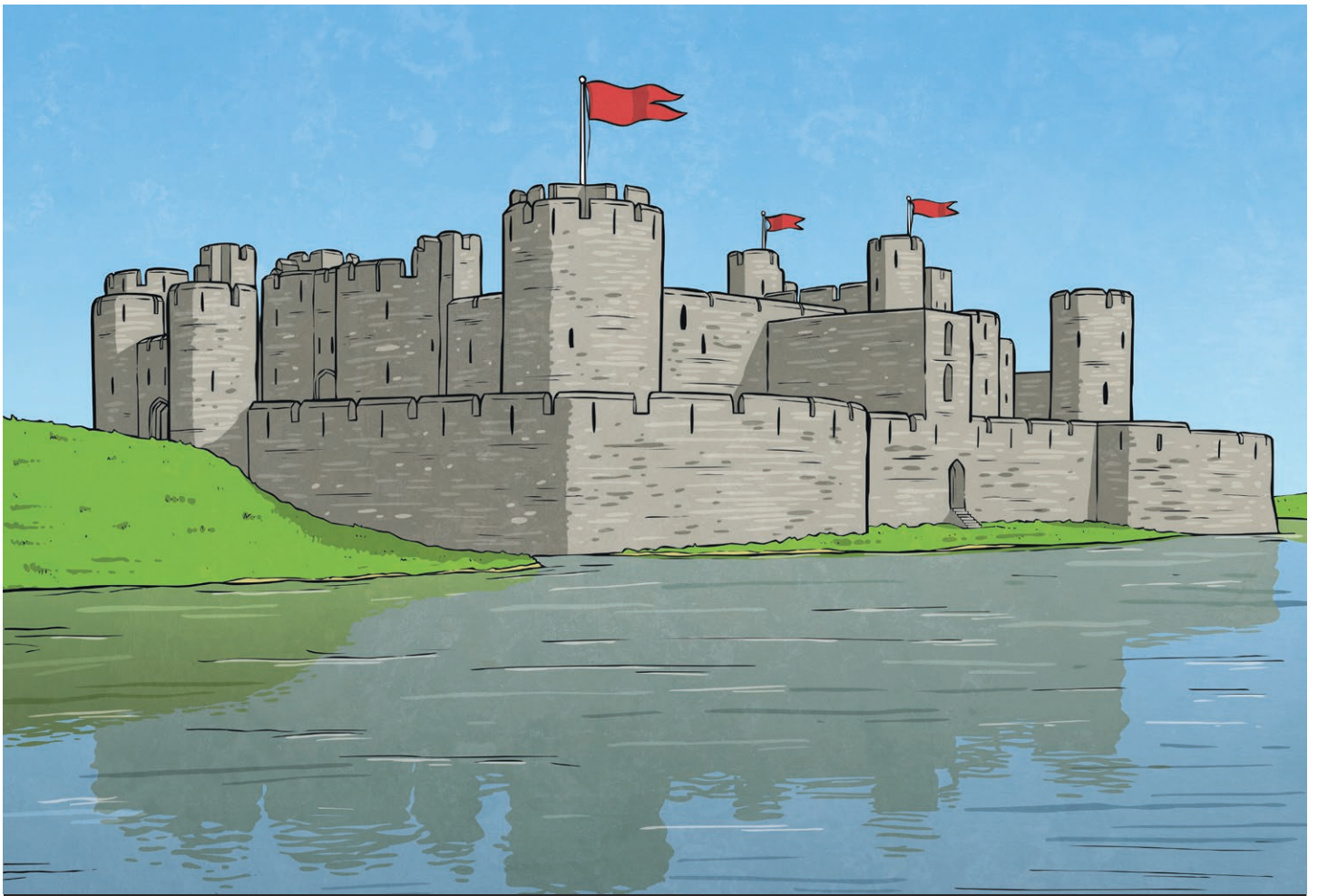
They have everything they need and are eager to get on the coach and get going! The teachers are very relieved when they finally arrive, get parked and head for the castle entrance.

Everyone is repeatedly counted and finally they are allowed into the castle ground. The children already know which group they are in and gather together.

They spend the morning looking around the castle kitchen, making bread, visiting the scary dungeons and making each other jump in the Haunted Tower.

But disaster has struck! Someone has sneaked away to the birds of prey enclosure. Each bird is kept in its own hutch. What's that? All the doors to the hutches are open! All the birds of prey have flown away!

It is your job to use the suspects' descriptions and solve the maths clues to identify the mystery birds of prey releaser. Good luck!

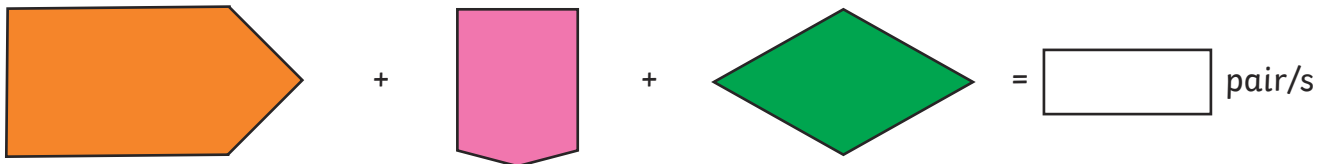
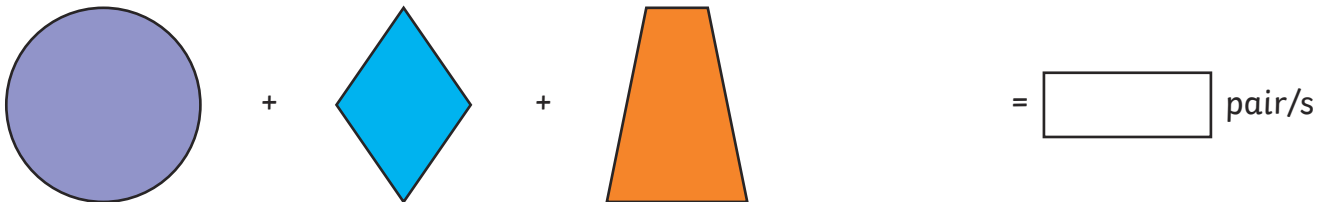
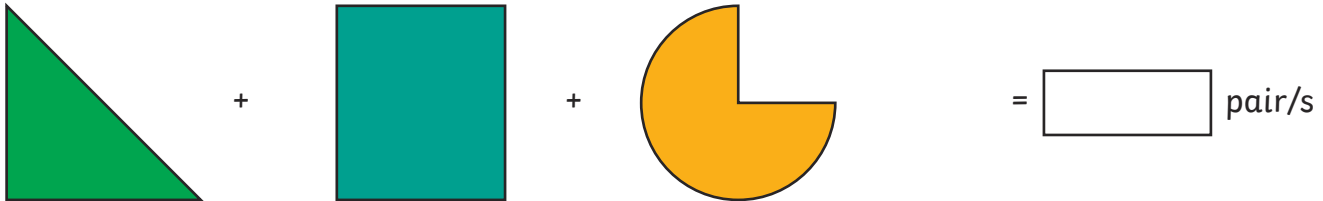
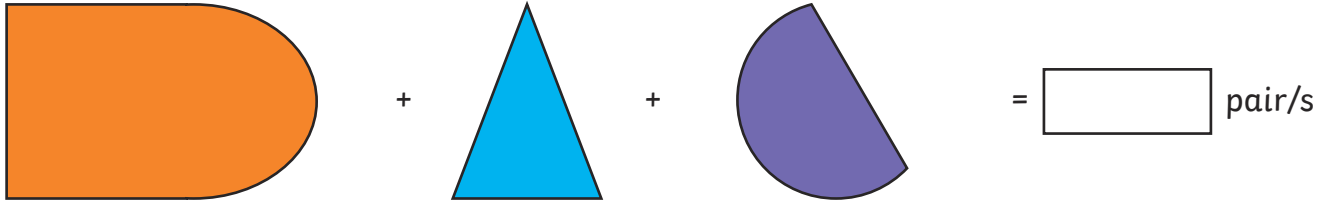


Descriptions of Suspects

Name	M/F	Height cm	Eye colour	Group	Dominant hand
Yamen Yellowtail	M	138	green	vulture	right
William Waxwing	M	143	blue	harrier	left
Tia Teal	F	137	brown	vulture	left
Sara Skylark	F	141	blue	hawk	right
Sean Serin	M	138	blue	harrier	right
Rayyan Razorbill	M	148	brown	hawk	right
Rea Raven	F	137	blue	eagle	right
Quentin Quail	M	138	blue	eagle	right
Phil Pheasant	M	143	blue	hawk	right
Paulina Puffin	F	137	brown	eagle	right
Oliver Ospray	M	138	green	vulture	left
Ola Oystercatcher	F	143	blue	harrier	right
Nina Nightingale	F	132	brown	vulture	left
Nizar Nuthatch	M	138	hazel	hawk	right
Marcel Mallard	M	138	blue	harrier	right
Mollie Merlin	F	132	brown	harrier	left
Laiba Linnet	F	137	brown	eagle	right
Liam Lapwing	M	132	blue	vulture	right
Jian Jay	M	126	brown	hawk	right
Julia Jackdaw	F	137	brown	harrier	right
Harnam Hawfinch	F	148	hazel	harrier	left
Harry Hobby	M	138	blue	vulture	right
Gurleen Goshawk	M	138	brown	hawk	right
Grace Gannet	F	143	blue	vulture	right
Fiona Fieldfare	F	137	brown	eagle	right
Finlay Fulmar	M	145	hazel	hawk	left
Dina Dipper	F	137	brown	eagle	left
Ciara Cuckoo	F	140	blue	harrier	right
Chris Coot	M	126	blue	vulture	right
Bailey Buzzard	F	137	green	eagle	left

Clue 1: To Meet or Not to Meet?

Here are some 2D shapes. Add together the number of pairs of parallel lines in each row of shapes. Then, find the answers in the table below to solve the first clue.



Clue 1: To Meet or Not to Meet?

3 pairs is	0 pairs male	2 pairs culprit
6 pairs hawk	1 pair the	5 pairs not
4 pairs female	7 pairs height	8 pairs blue

Answer to clue 1:

Clue 2: Dungeon Code

To solve clue number two, crack the code to the dungeon and see what you can find.

Work out the calculations and colour in the answers in the table below. Rearrange the letters to spell out the answer to the second clue.

$120 + 40$

$139 - 20$

$704 + 50$

$912 - 50$

$329 + 100$

$333 - 100$

$518 + 30$

$602 - 60$

$288 + 50$

548 O	109 G	542 N
618 U	160 Y	552 L
119 R	203 H	170 A
532 B	429 B	754 E
862 E	891 Z	662 P
188 M	338 S	233 W

Answer to clue 2:

Clue 3: Through the Spooky Forest

Whilst on the castle trip, the children go on a trail through the Spooky Forest.

Follow the calculation pathway to find out the height of the culprit.

1042

+ 100

+ 10

- 900

- 200

+ 4

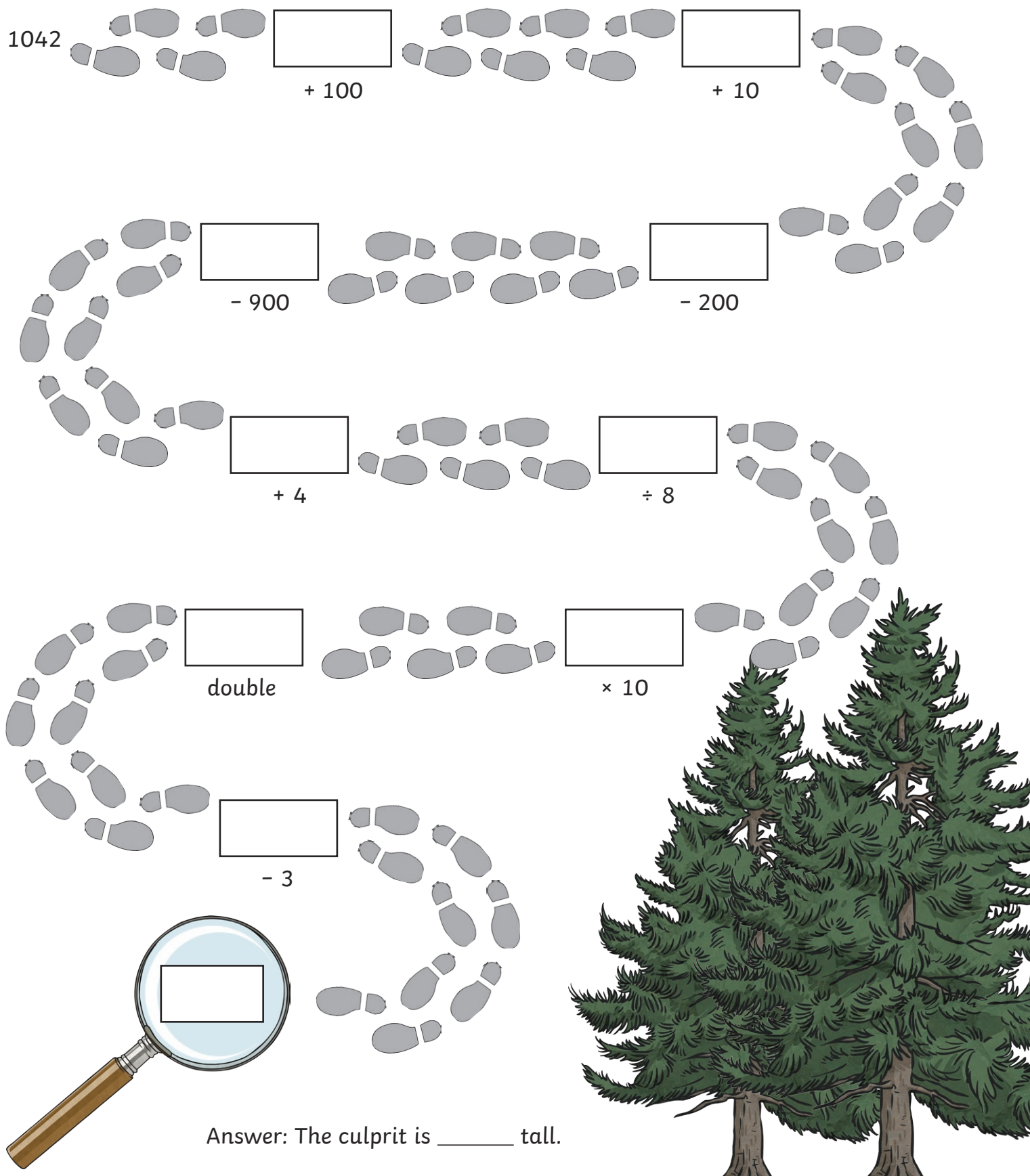
÷ 8

double

× 10

- 3

Answer: The culprit is _____ tall.



Clue 4: Unlock the Tower

The knight, Sir Rebral, must solve the direction puzzles if he is to find the princess locked in the tower.

Help him work out the puzzles, to solve the clue.

1. If I am facing north and I turn clockwise one right angle, which direction will I be facing?



2. If I am facing west and I make a 90 degree turn anticlockwise, which direction will I be facing now?



3. If I am facing west and I turn three right angles clockwise, which direction will I be facing?



4. If I am facing north and turn 360 degrees, which direction will I be facing?



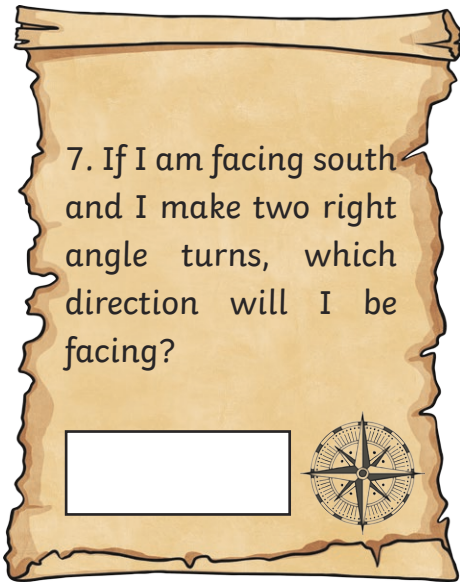
5. If I am facing east and I turn 90 degrees anticlockwise, which direction will I be facing?



6. If I am facing east and I turn 180 degrees, which direction will I be facing?



Clue 4: Unlock the Tower



Highlight the correct answer to solve clue 4.

I answered east, twice.	The culprit is in vulture group.
I answered south, twice.	The culprit is in eagle group.
I answered north, twice.	The culprit is in harrier group.
I answered west, twice.	The culprit is in hawk group.

Clue 5: Give Them a Hand

Fingerprints were discovered on the handles of the hutches where the birds of prey were kept. Solve the clues describing 3D shapes to work out whether the culprit was left or right handed.

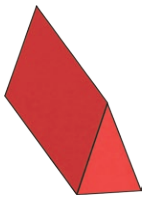
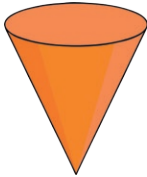
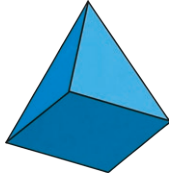

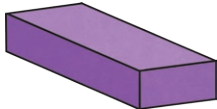
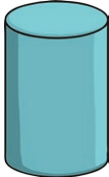
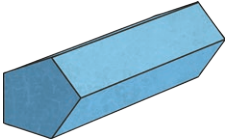


I have 6 flat faces, 12 flat edges and 8 vertices. All my faces are the same size. I am a _____.

I have 1 curved surface, no vertices and no edges. I am a _____.

I have 1 curved surface, 2 flat surfaces, and 2 curved edges. I am a _____.

I have 5 flat surfaces, 8 flat edges and 5 vertices. I am a _____.

I have one curved surface, 1 flat surface which is a circle, and 1 curved edge. I have no vertices. I am a _____.

 right	 left	 the
 culprit	 because	 handed
 wasn't	 is	 birds

Answer to clue 5:

Have you solved the mystery of who released the birds of prey at Eagleton Castle?

It was _____.

Clue 1: To Meet or Not to Meet?

Answers

3 pairs is	0 pairs male	2 pairs culprit
6 pairs hawk	1 pair the	5 pairs not
4 pairs female	7 pairs height	8 pairs blue

Answer: **THE CULPRIT IS FEMALE**

Clue 2: Dungeon Code **Answers**

548 O	109 G	542 N
618 U	160 Y	552 L
119 R	203 H	170 A
532 B	429 B	754 E
862 E	891 Z	662 P
188 M	338 S	233 W

Answer: **BROWN EYES**

Clue 3: Through the Spooky Forest **Answers**

$1042 + 100 = 1142$, $+10 = 1152$, $-200 = 952$, $-900 = 52$, $+4 = 56$, $\div 8 = 7$, $\times 10 = 70$, double
 $= 140$, $-3 = 137$

Answer: The culprit is 137cm tall.

Clue 4: Unlock the Tower **Answers**


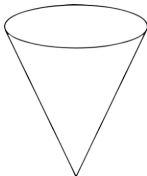
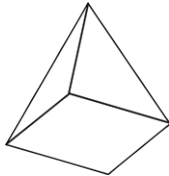
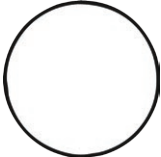
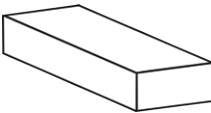
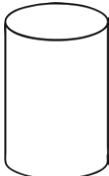
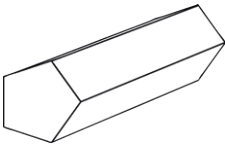
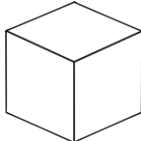

1. If I am facing north and I turn clockwise one right angle, which direction will I be facing?
east
2. If I am facing west and I make a 90 degree turn anticlockwise, which direction will I be facing now?
south
3. If I am facing west and I turn three right angles clockwise, which direction will I be facing?
south
4. If I am facing north and turn 360 degrees, which direction will I be facing?
north
5. If I am facing east and I turn 90 degrees anticlockwise, which direction will I be facing?
north
6. If I am facing east and I turn 180 degrees, which direction will I be facing?
west
7. If I am facing south and I make two right angle turns, which direction will I be facing?
north

Answer: I answered south twice. The culprit is in eagle group.

Clue 5: Give Them a Hand **Answers**

1. I have 6 flat faces, 12 flat edges and 8 vertices. All my faces are the same size. I am a **cube**.
2. I have 1 curved surface, no vertices and no edges. I am a **sphere**.
3. I have 1 curved surface, 2 flat surfaces, and 2 curved edges. I am a **cylinder**.
4. I have 5 flat surfaces, 8 flat edges and 5 vertices. I am a **square based pyramid**.
5. I have one curved surface, 1 flat surface which is a circle, and 1 curved edge. I have no vertices. I am a **cone**.

Clue 5: Give Them a Hand **Answers**

 right	 left	 the
 culprit	 because	 handed
 wasn't	 is	 birds

THE CULPRIT IS LEFT HANDED.

The person who released the birds of prey at Eagleton Castle was Dina Dipper.