

Bentworth Sky Observation Report

BENTWORTH  
AREA SCHOOL DISTRICT

My first trip to  
Mingo Creek  
Observation for your  
Science Teacher

Date: \_\_\_\_\_, 20\_\_\_\_

PRINT below:

NAME: \_\_\_\_\_

Circle Class period: 1 2 4 5

**PLEASE READ FIRST:**

*This here binding contract must be signed, by the teacher, PRIOR to the observation taking place. Some teachers MAY NOT take this for extra credit. PLEASE make sure your current science teacher is accepting this for credit. That is why it must be signed prior to taking place. It is the student's responsibility for turning this sheet in to the teacher. ALSO the student MUST sign in (in their own hand writing), AND write "Bentworth" after their name.*

*If you are in MR. SMITH'S class then you are approved to go to Mingo*

# Bentworth Sky Observation Report

## DIRECTIONS:

*Your science teacher MAY NOT take this for extra credit. PLEASE make sure your teacher is accepting this for credit. Having your teacher sign this will help but not necessary. It is the student's responsibility for turning this sheet in to the teacher. ALSO the student listed on the front cover MUST sign in at the front desk in their own hand writing at Mingo. They CAN NOT have someone else do it for them. In addition to signing in YOU MUST write "Bentworth" after their name.*

YOU do not have to complete this packet in ORDER. Some information will REQUIRE a computer or internet information. **The worksheets, however, will be graded, IN ORDER, for accuracy, completion, and signature by staff member (when possible).** Each sheet will be extra credit. When the sheet is **NOT completed fully**, then the extra credit stops at **THAT sheet and the previous sheets will count**

## Index

**PAGE 1: Star gazing** You are to observe an object using THE BIG telescope

*PAGE 2: Worksheet: Locate the BIG DIPPER and what is an Asterism and constellation?*

**PAGE 3: Star gazing** Observe a DIFFERENT object using THE BIG telescope (can't repeat objects)

*PAGE 4: Worksheet: Locate Polaris*

**PAGE 5: Star gazing** Observe a DIFFERENT object using THE BIG telescope (can't repeat objects)

*PAGE 6: Worksheet: Locate BOOTES and Virgo using the BIG DIPPER*

**PAGE 7: Star gazing** Observe any object using the another scope

*PAGE 8: Worksheet: Locate LEO using the PIG DIPPER*

*.NOTES:*

# Bentworth Sky Observation Report

Name \_\_\_\_\_ Observation Number# PAGE 1

## Directions:

- Spend a minute or two carefully observing and recording what you see in the eye piece.
- COMPLETE this entire page for credit. It is your responsibility to turn it into the teacher

01)

**OBJECT that you are viewing is:**

- A) Planet
- B) Star(s)
- C) Nebula/Galaxy
- D) Solar (Sun)
- E) Other

**In the Circle below, sketch the object viewed in that eyepiece. The Circle represents the eyepiece that you are looking into, draw what you see!**

**Location: Mingo Creek Observatory**

**Date :**

**Time: \_\_\_\_\_ am/pm**

**Viewing condition:**

02)

**Which Telescope did you used to view object with:**

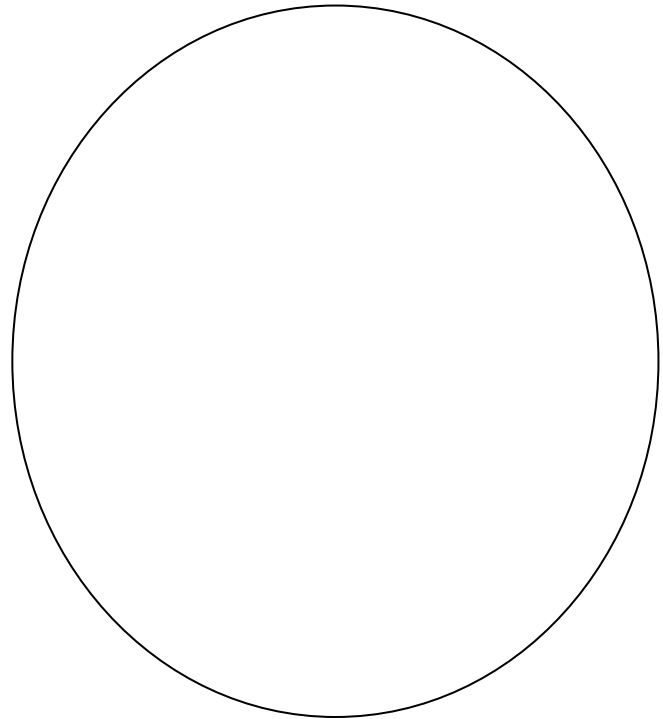
- A) BIG 24' scope
- B) 10' telescope
- C) Private scopes

03)

**What type of Telescope was it?**

- A) Refractor
- B) Reflector
- C) Dobsonian
- D) Cassegrain (also RC)
- E) Other

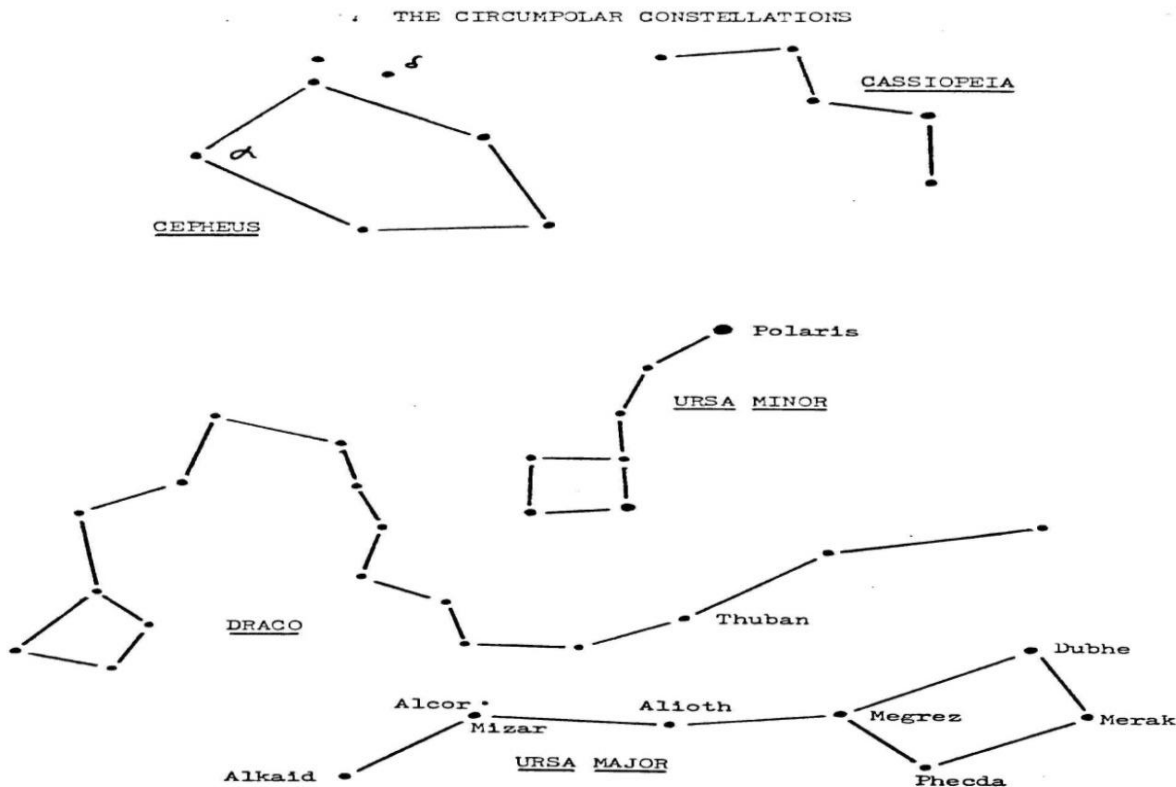
**Eye Piece size if known: \_\_\_\_\_ mm**



# Bentworth Sky Observation Report

Name \_\_\_\_\_ Observation Number# PAGE 2

Directions:



4. A group of stars that make up an imaginary pattern of mythical creatures or great hero's is called?
  - a. Constitution
  - b. Constellation
  - c. Construction
  - d. Astronaut
  
5. **ASTERISM** is a constellation within another constellation. For example the "Big Dipper" is not a recognized constellation. It is an **ASTERISM** because it is part of which recognized constellation?
  - a. Draco
  - b. Ursa Major
  - c. Ursa Minor
  - d. Cassiopeia
  - e. Cephus
  
6. Which general compass direction is the **Big Dipper** located at?
  - a. North
  - b. South
  - c. East
  - d. West

# Bentworth Sky Observation Report

Name \_\_\_\_\_ Observation Number# PAGE 3

## Directions:

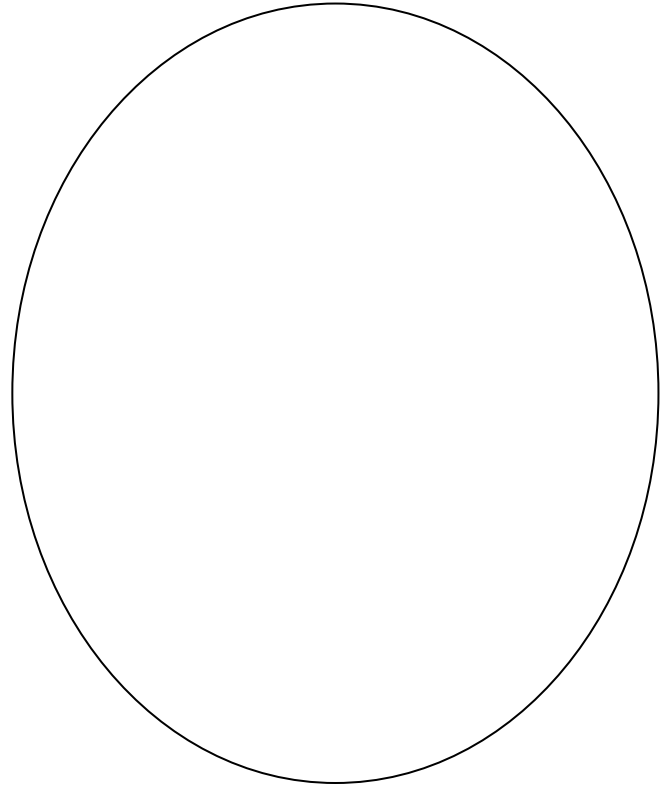
- Spend a minute or two carefully observing and recording what you see in the eye piece.
- COMPLETE this entire page for credit. It is your responsibility to turn it into the teacher

07)

**OBJECT that you are viewing is:**

- A) Planet
- B) Star(s)
- C) Nebula/Galaxy
- D) Solar (Sun)
- E) Other

**In the Circle below, sketch the object viewed in that eyepiece. The Circle represents the eyepiece that you are looking into.**



**Location: Mingo Creek Observatory**

**Date :**

**Time: \_\_\_\_\_ am/pm**

**Viewing condition:**

08)

**Which Telescope did you used to view object with:**

- A) BIG 24' scope
- B) 10' telescope
- C) Private scopes

09)

**What type of Telescope was it?**

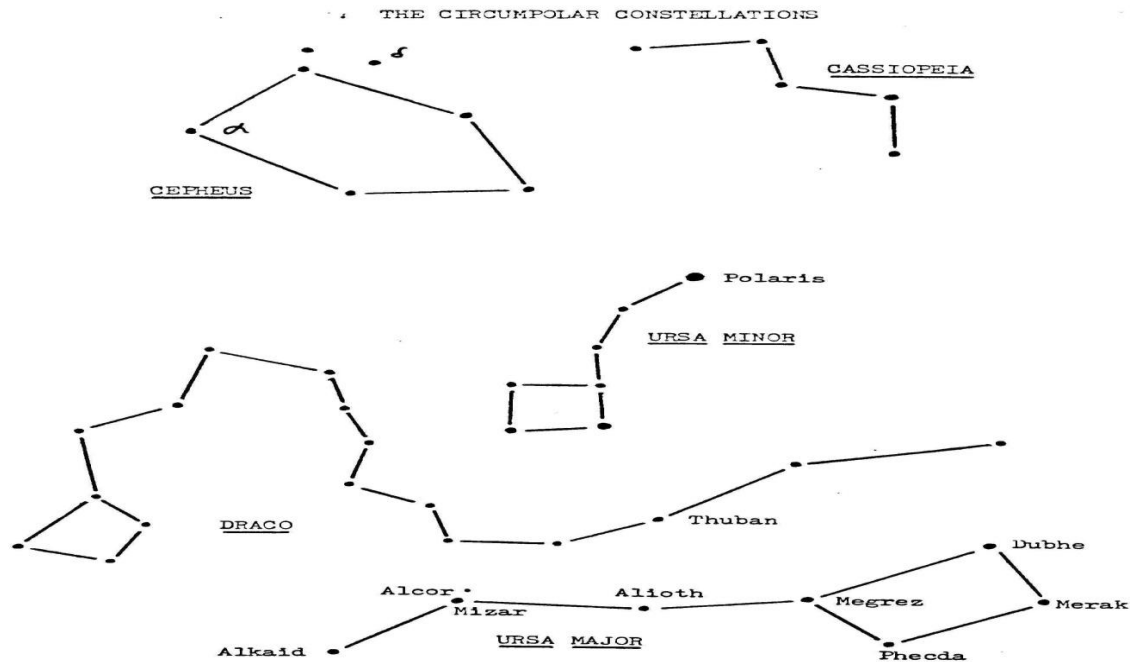
- A) Refractor
- B) Reflector
- C) Dobsonian
- D) Cassegrain
- E) Other

**Eye Piece size if known: \_\_\_\_\_ mm**

# Bentworth Sky Observation Report

Name \_\_\_\_\_ Observation Number# PAGE 4

Directions:



*CIRCLE your answer for the next 3 questions*

10. What is the name of the North Star?

- a. Arcturus
- b. Betelgeuse
- c. Polaris
- d. Thuban
- e. Vega

11. What is the name of the NEW North Star in about 8,000 years from now?

- a. Arcturus
- b. Betelgeuse
- c. Polaris
- d. Thuban
- e. Vega

12. What was the name of the former (OLD) North Star located in Draco?

- a. Arcturus
- b. Betelgeuse
- c. Polaris
- d. Thuban
- e. Vega

# Bentworth Sky Observation Report

Name \_\_\_\_\_ Observation Number# PAGE 5

## Directions:

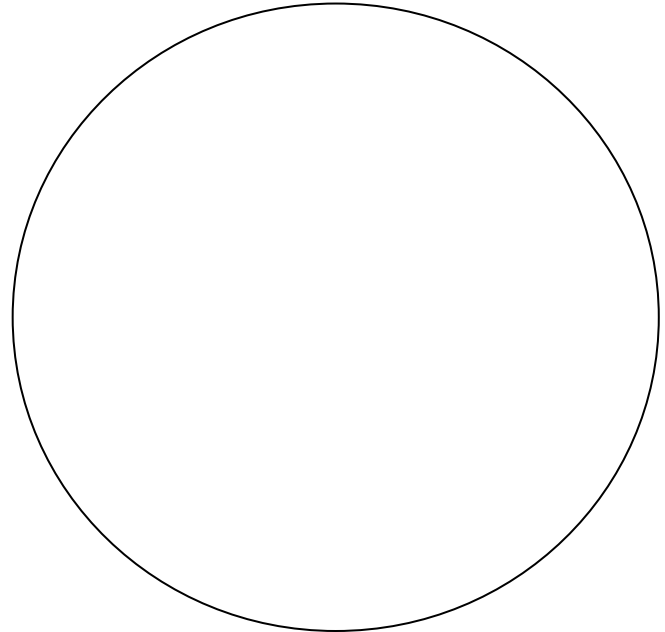
- Spend a minute or two carefully observing and recording what you see in the eye piece.
- COMPLETE this entire page for credit. It is your responsibility to turn it into the teacher

13)

**OBJECT** that you are viewing is:

- A) Planet
- B) Star(s)
- C) Nebula/Galaxy
- D) Solar (Sun)
- E) Other

**In the Circle below, sketch the object viewed in that eyepiece. The Circle represents the eyepiece that you are looking into.**



**Location:** Mingo Creek Observatory


**Date :**

**Time:** \_\_\_\_\_ am/pm

**Viewing condition:**

14)

**Which Telescope did you used to view object with:**

- A) BIG 24' scope
- B) 10' telescope 
- C) Private scopes

15)

**What type of Telescope was it?**

- A) Refractor
- B) Reflector
- C) Dobsonian
- D) Cassegrain
- E) Other

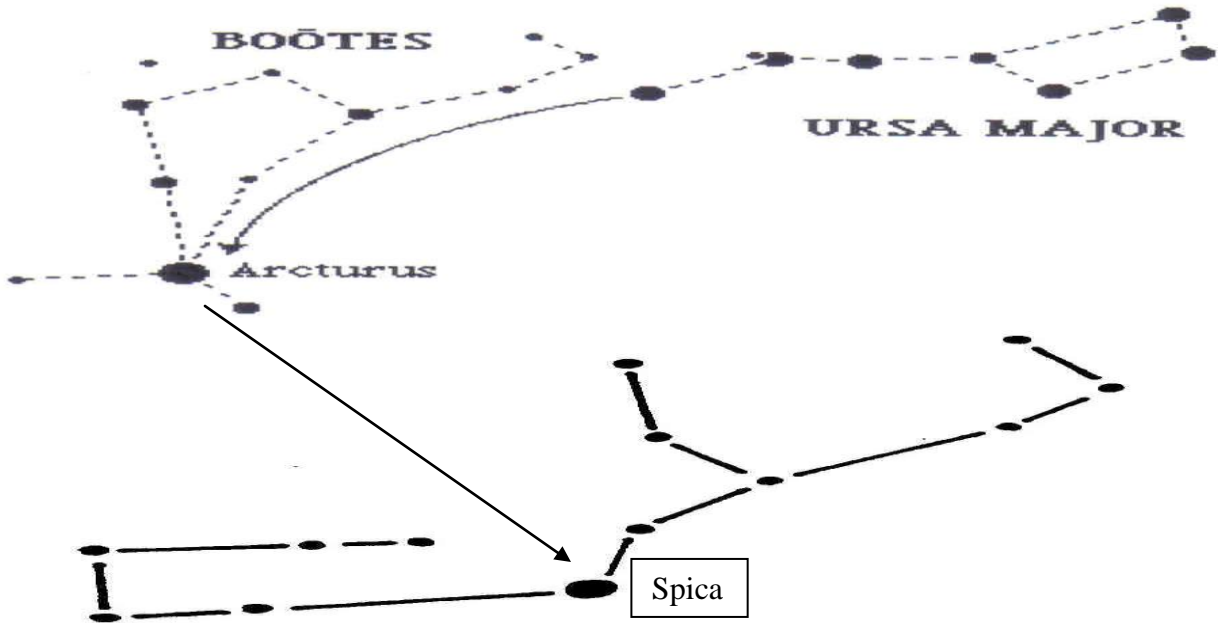
**Eye Piece size if known:** \_\_\_\_\_ mm

# Bentworth Sky Observation Report

Name \_\_\_\_\_ Observation Number# PAGE 6

Directions:

*THIS SHEET must HAVE a signature to indicate that you completed this.*



16. What is the name of the Alpha Star in Boötes? HINT: use the Arc of the handle to help you.
- a. Arcturus
  - b. Betelgeuse
  - c. Dubhe
  - d. Merak
  - e. Polaris
17. What is the name of the Alpha Star in Virgo? HINT use above diagram to help.
- a. Arcturus
  - b. Polaris
  - c. Spica
  - d. Thuban
  - e. Vega
18. For example Ares is a Ram, Orion is the Hunter, what is Boötes known as? .
- a. Hunter
  - b. Herdsman
  - c. Lion
  - d. Ram
  - e. Bear
19. Virgo is one part of the 12 special constellations that we call \_\_\_\_\_?
- a. Maidens
  - b. Birds
  - c. Bees
  - d. Zodiacs
  - e. Circumpolar



# Bentworth Sky Observation Report

Name \_\_\_\_\_ Observation Number# PAGE 5

## Directions:

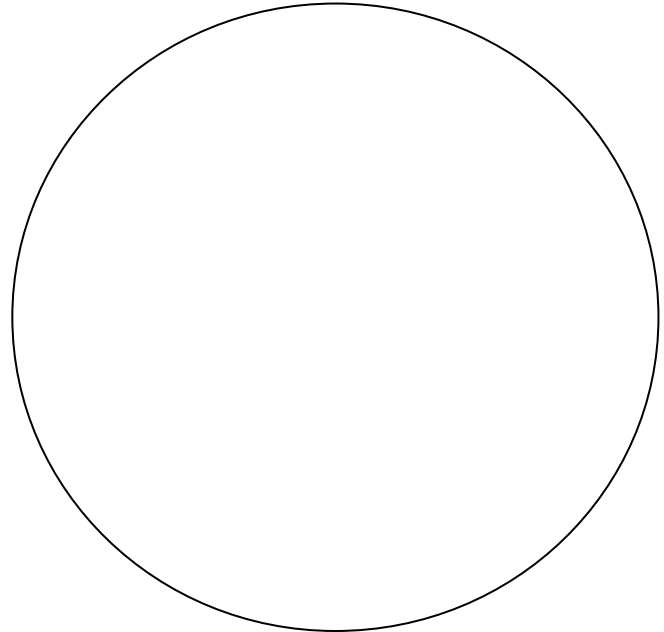
- Spend a minute or two carefully observing and recording what you see in the eye piece.
- COMPLETE this entire page for credit. It is your responsibility to turn it into the teacher

20)

**OBJECT** that you are viewing is:

- A) Planet
- B) Star(s)
- C) Nebula/Galaxy
- D) Solar (Sun)
- E) Other

In the Circle below, sketch the object viewed in that eyepiece. The Circle represents the eyepiece that you are looking into.



**Location:** Mingo Creek Observatory

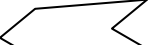
**Date :**

**Time:** \_\_\_\_\_ am/pm

**Viewing condition:**

21)

**Which Telescope did you used to view object with:**

- A) BIG 24' scope
- B) 10' telescope
- C) Private scopes 

22)

**What type of Telescope was it?**

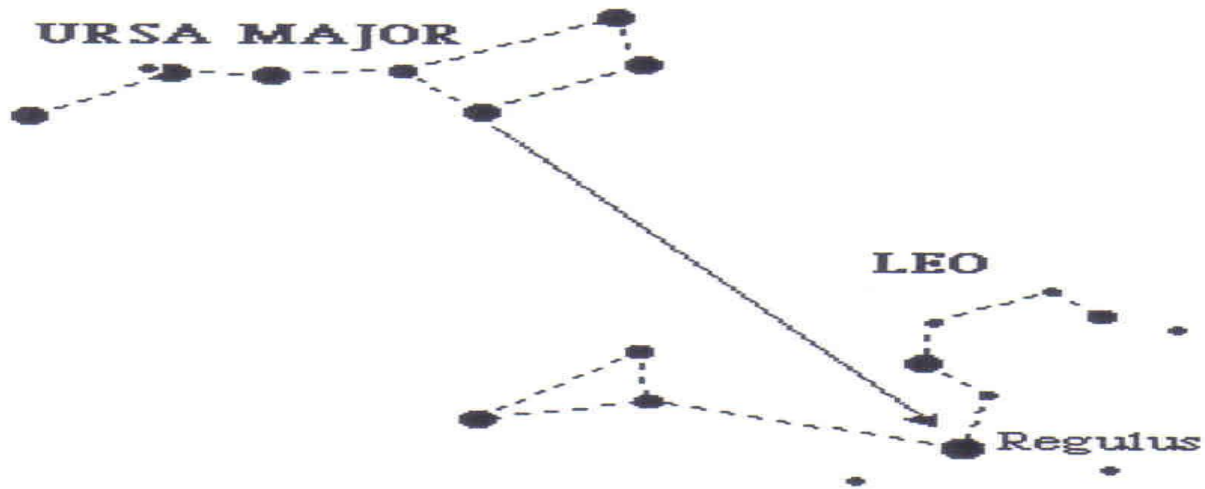
- A) Refractor
- B) Reflector
- C) Dobsonian
- D) Cassegrain
- E) Other

**Eye Piece size if known:** \_\_\_\_\_ mm

# Bentworth Sky Observation Report

Name \_\_\_\_\_ Observation Number# PAGE 8

*THIS SHEET must HAVE a signature to indicate that you completed this.*



23. What is the name of the two Stars that make up the Pointer Stars in Ursa Major?  
One is called Merak while the other is?

- a. Arcturus
- b. Dubhe
- c. Polaris
- d. Thuban
- e. Vega

24. What is the name of the Alpha Star in LEO using the Big Dipper?

- a. Arcturus
- b. Dubhe
- c. Polaris
- d. Regulus
- e. Spica

25. For example Ares is a Ram, Orion is the Hunter, what is Leo known as?

- a. Ram
- b. Dog
- c. Bear
- d. Dragon
- e. Lion