



Stars and Brightness

Name: _____

Date: _____

Grade: Grade 5

Part A: Multiple Choice

Circle the best answer for each question.

1. A light-year is best described as what?

- A) The distance light travels in one year
- B) How long a star lives in years
- C) The age of the universe in years
- D) How fast a planet orbits its star

2. If a star moves much closer to Earth, what happens to how bright it looks?

- A) It looks the same brightness
- B) It looks brighter from Earth
- C) It disappears completely
- D) It changes color but not brightness

3. A red giant star is best described as which of these?

- A) A small, hot, blue young star
- B) A medium yellow star like our Sun
- C) A huge, cool, reddish older star
- D) A tiny dim star made of ice

4. Which famous star is known as the North Star and stays nearly fixed above Earth's North Pole?

- A) Sirius
- B) Betelgeuse
- C) Rigel
- D) Polaris

Part B: Fill in the Blank

Write the correct answer on each line.

1. A _____ is a small, hot, very dense star left after a Sun-like star dies.
2. If a star moves farther from Earth, its apparent brightness will _____.
3. Light from the closest star besides the Sun takes about four _____ to reach Earth.
4. The supergiant star _____, in Orion's shoulder, is huge and reddish.
5. Even though a light-year sounds like time, it actually measures _____.

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Part B: Fill in the Blank

Write the correct answer on each line.

1. A white dwarf is a small, hot, very dense star left after a Sun-like star dies.
2. If a star moves farther from Earth, its apparent brightness will decrease.
3. Light from the closest star besides the Sun takes about four years to reach Earth.
4. The supergiant star Betelgeuse, in Orion's shoulder, is huge and reddish.
5. Even though a light-year sounds like time, it actually measures distance.