**Questions 1-5**

Choose the correct letter, **A, B, C or D**and Write the correct letter next to the questions **1-5** on your answer sheet.

1**According to the writer, the first telescope was**

A invented by children.

B made by a lens maker.

Ca reflective telescope.

D quite a complex piece of equipment.

2**The writer states that Galileo**

A improved on the design of the first telescope.

B created the first reflective telescope.

C took 24 hours to make a reflective telescope.

D allowed people to see 3 times further than the first telescope.

3**The Galileo telescope was better than the first telescope because of it**

A used mirrors rather than glass.

B was longer than the first telescope.

C used better lens positioning and quality.

D used better quality lenses and glass.

4**The writer states that today large telescopes are**

A 20 or 30 meters in size.

B as big as 100 meters.

C very costly items.

D as good as will ever be built.

5**Large, powerful telescopes are difficult to build because**

A designs have not changed in nearly 100 years.

B it is difficult to locate the flint glass needed for them.

C the area needed to house the telescope is simply too large.

D the lenses must be extremely reflective.

**Questions 6-10**

Classify the following features as belonging to

1. the Achromatic telescope
2. the Reflective telescope
3. the Refracting telescope

Write the correct letter **A, B or C**, in boxes **6-10** on your answer sheet.

6 The first telescopes made.

7 It uses a series of lenses one on top of the other.

8 Highly polished lenses.

9 The first use of mirrors to collect light.

10 Two pieces of glass stuck together

**Questions 11-13**

**Complete the summary below using words from the passage.**

Choose **NO MORE THAN THREE WORDS** from the passage for each answer.

Write your answers in the blank spaces next to **11-13** on your answer sheet.

There have been a number of changes in telescopes since they were first invented. For example, Galileo’s telescope increased magnification of the previously made telescope by a factor of 30. He did this by altering the lenses 11\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and also constructing lenses 12\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Other improvements followed but the most significant step forward, and still a major factor today in telescope design, has been the inclusion of 13\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.