

13 Which molecule has the **largest** bond angle?

- A BCl_3
- B CO_2
- C H_2O
- D NH_3

(Total for Question 13 = 1 mark)

13 Which molecule has the largest bond angle?

- A BF_3
- B CF_4
- C H_2O
- D NH_3

(Total for Question 13 = 1 mark)

7 This question is about bond angles.

(a) What is the expected bond angle in a boron trichloride molecule, BCl_3 ?

(1)

- A** 90°
- B** 107°
- C** 109.5°
- D** 120°

(b) What is the expected bond angle in an ammonium ion?

(1)

- A** 90°
- B** 104.5°
- C** 107°
- D** 109.5°

(c) What is the expected bond angle in an oxygen difluoride molecule, OF_2 ?

(1)

- A** 90°
- B** 104.5°
- C** 109.5°
- D** 180°

(Total for Question 7 = 3 marks)