From the data given below solve the questions:

Two brothers, Harish and Sanjay bought four acres of land in 1990 and started cultivating it in 1991. They produced 1,000 Kg of jowar per acre that year. Being the elder brother, Harish decided the proportion in which the total production would be shared. He retained 1,800 kg and gave the rest to Sanjay. In 1994 when the production was twice that in 1991, Harish gave 60% of the production to Sanjay. Sanjay found that Harish was more considerate in that year than in 1992, when he had received 2,700 kg which was only 200 kg more than what Harish would have retained, had the production been divided equally. In 1995 when the production was twice that of 1993, Harish retained 9,000 Kg Which was 75% of the total production in 1995.

1. In 1991 Harish and Sanjay had shared the production in the ratio:

(a) 1 : 1

(b) 9 : 11

(c) 11 : 9

(d) None of the above

2. The increase in production between 1993 and 1994 was:

(a) 1,000 Kg

(b) 1,500 Kg

(c) 2,000 Kg

(d) 3,500 Kg

3. **The quantity of jowar received by Harish in 1991 as a ratio of quantity received in 1995 is closer to :**

(a) 1 : 2

(b) 1 : 3

(c) 1 : 5

(d) 1 : 4

4. The quantity received by Sanjay in 1994 was :

(a) four times the production of 1993

(b) one-fourth the production of 1993

(c) twice the production of 1992

(d) 40% of the production of 1995

5. Production in 1991 is what percent of production in 1995?
(a) 9.09%
(b) 10%
(c) 8.5%
(d) 33.33%

1. Answer: B

Sol. The production in 1991 = 1000 kg per acre. So total = 4000 kgs, so share 1800:2200 = 9 : 11

2. Answer: C

Sol. Production in 1993 = 6000 kgs and in 1994 = 8000 = kgs, so 2000 kgs increase.

3. Answer: C

Sol. Share in 1991 = 1800 and in 1995 = 9000, so ratio = 1800 : 9000 = 1 : 5

4. Answer: D

Sol. Production in 1995 = 12000 kgs and Sanjay's share in 1994 = 4800 kgs, which is 40% of 12000.

5. Answer: D

Sol. $\dfrac{4000}{12000} \times 100 = 33.33\%$