

6. [Numbers] [1996–2000]

Method**Approach I – ordering****Given:** 0.8, 0.72, 0.098 and 0.605

∴ Arranging the numbers according to its decreasing value,

Deduce that

$$0.8 > 0.72 > 0.605 > 0.098$$

∴ **The largest number is**

$$0.8 \text{ (ans)}$$

Approach II – place holder**Given:** 0.8, 0.72, 0.098 and 0.605

∴ Pad the trailing zeros after the decimal point (the padded zeros would not affect the value of the number). Place the numbers vertically according to its place holders.

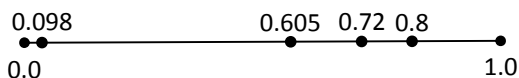
0.8	≡	0.800
0.72	≡	0.720
0.098	≡	0.098
0.605	≡	0.605

∴ **The largest number is**

$$0.8 \text{ (ans)}$$

Approach III – number line**Given:** 0.8, 0.72, 0.098 and 0.605

∴ Draw the number line:

∴ **The largest number is**

$$0.8 \text{ (ans)}$$

0.72

0.098

0.605

0.8

(1) (ans)**CheckBack**

Apart from carelessness, this question is easily checked **by arranging it vertically.**

•	0.8	≡	0.800
	0.72	≡	0.720
	0.605	≡	0.605
	0.098	≡	0.098

(checked)**Exam Report**

Majority of the candidates gave the correct answer.



7. [Numbers] [1996–2000]

Method**Approach I – numbers**

In a pizza restaurant, 2 boys share 3 pizzas equally.

∴ Let S be the share of the pizzas each boy will get.

∴ **The share of the pizzas each boy will get**

$$S = 3 \text{ pizzas} \div 2 \text{ boys}$$

$$= \frac{3}{2}$$

$$= \frac{2+1}{2}$$

$$= \frac{2}{2} + \frac{1}{2}$$

$$= 1 + \frac{1}{2}$$

$$= 1\frac{1}{2} \text{ pizzas (ans)}$$

Approach II – ratio

In a pizza restaurant, 2 boys share 3 pizzas equally.

∴ Let S be the share of the pizzas each boy will get.

$$\Rightarrow 2 \text{ boys} \equiv 3 \text{ pizzas } (\div 2 \text{ for both sides})$$

$$2 \text{ boys} \div 2 \equiv 3 \text{ pizza} \div 2$$

$$\frac{2}{2} \text{ boy} \equiv \frac{3}{2}$$

$$1 \text{ boy} \equiv \frac{2+1}{2}$$

$$= \frac{2}{2} + \frac{1}{2}$$

$$= 1 + \frac{1}{2}$$

$$= 1\frac{1}{2} \text{ pizzas (ans)}$$

∴ The share of the pizzas each boy will get

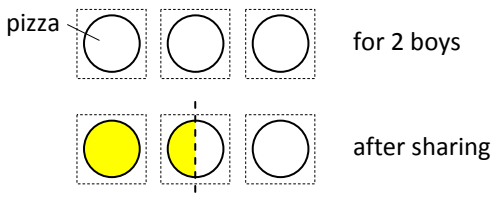
$$S = 1\frac{1}{2} \text{ pizzas (ans)}$$

Approach III – model

In a pizza restaurant, 2 boys share 3 pizzas equally.

∴ Let S be the share of the pizzas each boy will get.

The model based on the information given is drawn as shown.



∴ The share of the pizzas each boy will get

$$S = 1\frac{1}{2} \text{ pizzas (ans)}$$

1 pizza

$\frac{2}{3}$ pizza

$1\frac{2}{3}$ pizzas

$1\frac{1}{2}$ pizzas

(3) (ans)

CheckBack

If the answer is $1\frac{1}{2}$ pizzas,

- The total pizzas for the two boys

$$= 1\frac{1}{2} + 1\frac{1}{2}$$

$$= 1 + \frac{1}{2} + 1 + \frac{1}{2} = 2 + \frac{1}{2} + \frac{1}{2}$$

$$= 3 \text{ pizzas (checked)}$$

Exam Report

Quite a number of candidates gave the correct option for this question.



End of 1996–2000