

Quantitative Aptitude:

Number Systems

Remainders





Remainders: Fundamentals

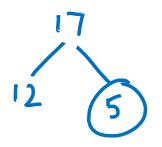


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What is Remainder



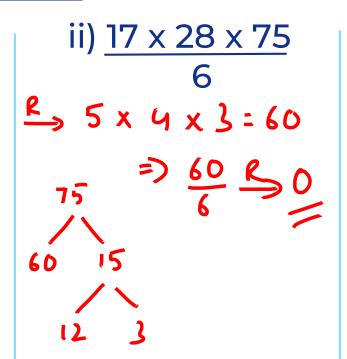


Finding Remainder: Addition

i)
$$\frac{12 + 34}{11}$$
 $\frac{46}{11}$
 $\frac{12}{11} + \frac{34}{11}$
 $\frac{12}{11} + \frac{34}{11}$
 $\frac{13}{11} + \frac{34}{11$



Finding Remainder: Multiplication



iii)
$$38 \times 71 \times 86$$

16

R > $6 \times 7 \times 6 = 36 \times 7$

R > $4 \times 7 = 28$

R > 12



Finding Remainder: Mix

i)
$$12 \times 34 + 56$$
11

 $\stackrel{?}{=} 1 \times 1 + 1$
= $1 + 1 = 2$

ii)
$$17 \times 28 + 75 \times 66$$
6
2 $5 \times 4 + \times \times 0$
= $20 + 0 = \frac{20}{6}$ ≈ 2

iii)
$$38 + 71 \times 86$$

$$16$$

$$R_{5} 6 + 7 \times 6 = 6 + 42$$

$$= 48 R_{5} O_{6}$$



What you'll learn:

$$\frac{1234567^{81} \times 369^{135} + 654^{999!}}{5}$$

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Thanks

