

Quantitative Aptitude: Number Systems

Remainders





Remainders: Problems Part 1



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Q1. On dividing a <u>number</u> by <u>5</u>, we get 3 as remainder. What will be the remainder when the square of this number is divided by 5?

A. O

+



Q2. On dividing a number by 4, we get 2 as remainder. What will be the remainder when the square of this number is divided by 4?

A.0

B.1

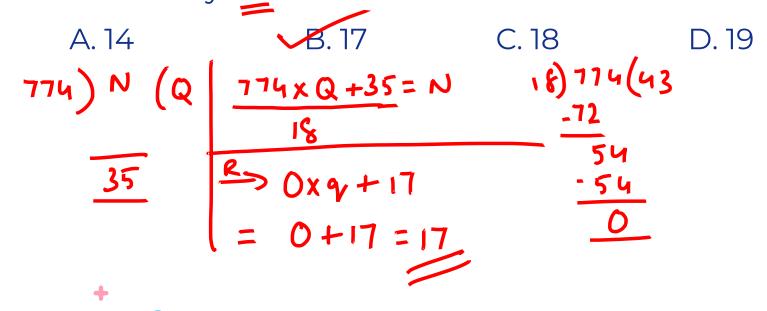
C.2

D.4

$$\frac{x}{y} \stackrel{?}{=} 2$$
 $\frac{2^{2}}{y} = \frac{y}{y} \stackrel{?}{=} 0$
 $6^{2} = \frac{36}{y} \stackrel{?}{=} 0$
 $10^{2} = 100 \stackrel{?}{=} 0$



Q3. On dividing a number by 774, we get 35 as remainder. What will be the remainder when the same number is divided by 18?





Q4. On dividing a <u>number</u> by 392, we get 31 as remainder. What will be the remainder when the same number is divided by 28?

352) N (Q | N =
$$\frac{392 \times Q + 31}{28}$$
 | $\frac{-28}{112}$ | $\frac{-28}{112}$ | $\frac{-112}{0}$ | $\frac{-112}{0}$ | $\frac{-392 \times Q + 3}{0}$ | $\frac{-112}{0}$ |



Q5. The difference of two numbers is 1365. On dividing the larger number by the smaller, we get 6 as quotient and the 15 as remainder. What is the smaller number?

A. 240	B. 270	C. 295	D. 360
Small = S	s)B(6	65-5=1365-15	
Big = B		55 = 1350	
B-S=1365	<u>15</u>	$S = \frac{270}{1350}$	
B=1365+S	B=Sx6+15	5	
	1365+5=65+15	= 270	
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Q6. In a division sum, the divisor is 10 times the quotient and 5 times the remainder. If the remainder is 46, what is the dividend?

A.
$$4236$$

R= 46

d= $5 \times 46 = 230$

d= $10Q = 230$

Q= $\frac{230}{10} = 23$

B.
$$4306$$
 C.

D = $dQ + R$

= $230 \times 23 + 46$

= $5290 + 46$

= 5336





Thanks

