

## Cubes and Cubes Roots Ex 4.1 Q19

## Answer:

(i)

We have to find the cube of 35 using column method. We have: a=3 and b=5

Column I a <sup>3</sup>	Column II $3 \times a^2 \times b$	Column III $3  imes a  imes b^2$	Column IV
$3^3 = 27$	$3 \times a^2 \times b = 3 \times 3^2 \times 5 = 135$	$3 \times \mathbf{a} \times \mathbf{b}^2 = 3 \times 3 \times 5^2$ $= 225$	$5^3 = 125$
+15	+23	+ 12	125
42	15 <u>8</u>	237	
42	8	7	5

Thus, cube of 35 is 42875.

(ii)

We have to find the cube of 56 using column method. We have:  $a=5\ \mathrm{and}\ b=6$ 

Column I a <sup>3</sup>	Column II $3 \times a^2 \times b$	Column III $3 \times a \times b^2$	Column IV
$5^3 = 125$	$3 \times \boldsymbol{a^2} \times \boldsymbol{b} = 3 \times 5^2 \times 6 = 450$	$3 \times a \times b^2 = 3 \times 5 \times 6^2$ $= 540$	$6^3 = 216$
+50	+56	+ 21	21 <u>6</u>
175	50 <u>6</u>	56 <u>1</u>	
175	6	1	6

Thus, cube of 56 is 175616.

(iii)

We have to find the cube of 72 using column method. We have:  $a=7\ \mathrm{and}\ b=2$ 

Col <mark>umn</mark> I a <sup>3</sup>	Column II $3  imes a^2  imes b$	Column III $3  imes a  imes b^2$	Column IV
$7^3 = 343$	$3 \times a^2 \times b = 3 \times 7^2 \times 2 = 294$	$3 \times a \times b^2 = 3 \times 7 \times 2^2$ = 84	$2^3 = 8$
+30	+8	+0	8
373	30 <u>2</u>	84	
373	2	4	8

Thus, cube of 72 is 373248.

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