

	0	1	2	3	4	5	6	7	8
0	0	0	0	0	0	0	0	0	0
✓ Gold	0	3	3	3	3	3	3	3	3
✗ Silver	0	3	3	3	3	6	6	6	6
✓ Diamond	0	3	4	7	7	7	7	7	10
✓ Ruby	0	3	4	7	8	9	12	12	12

✓ Ruby last - 12 12 is not present in above
 so we can take Ruby. $(12 - 5) = 7$

✓ Diamond 7 is not present in above so
 we can take Diamond. $(7 - 4) = 3$

✗ Silver 3 is present in above so we
 cannot take Silver.

✓ Gold 3 is not present in above so we
 can take Gold.

Ans: Gold, Diamond, Ruby.

See next page
 for clear view..

ITEM	Weight (in kg)	Price (in thousand)
Gold	1	3
Silver	4	3
Diamond	2	4
Ruby	3	5

Total capacity – 8 kgs

Weight

	0	1	2	3	4	5	6	7	8
0	0	0	0	0	0	0	0	0	0
Gold	0	3	3	3	3	3	3	3	3
Silver	0	3	3	3	3	6	6	6	6
Diamond	0	3	4	7	7	7	7	7	10
Ruby	0	3	4	7	8	9	12	12	12

Answer:

	0	1	2	3	4	5	6	7	8
0	0	0	0	0	0	0	0	0	0
Gold	0	3	3	3	3	3	3	3	3
Silver	0	3	3	3	3	6	6	6	6
Diamond	0	3	4	7	7	7	7	7	10
Ruby	0	3	4	7	8	9	12	12	12

We can take Gold, Diamond and Ruby.