The Straight-Line Method

salvage Value = 6000

= 16.67

Year	Dep. Value	Dep. rate	Armual Dep.	Accumulated Dep.	Ending Book
1	69000	16.67 %.	11502,3	11502.3	63497.7
2	69000	16.67%	11502.3	23004,5	51995,5
3	69000	16.67%	11502.3	34506.9	40493.1
4	69000	16.677	11502.3	46009.2	28990.8
5	69000	16.67%	11502.3	57511.5	17488.5
6	69000	16.67%	1150213	69013.8	5986.2

Unit of Activity Method

Dep. Value = 69000

Dep. rate = 69000

=0.81176

¥1	54V =	= 17000			2 7 7 2
Year	Units	Dep. Costlunit	Annual Dep.	Accumulated Dep.	Ending Book Value
1	17000	0.81176			61200.08
2	11000	0.81176	8929,36	22729,28	52270.72
3	15000	0.81176	1276.4	34905,68	40094.32
4	12000	0.81176	9741.12	4464618	30353.2
5	13000	0.81176	10552.88	55199.68	19800:32
6	17000	0.81176	13799.92	68999.6	6000.4

Declining Balance Method

Dep. rate = 2x dep. rate of straight line = 2×16.67 = 33.34%....

Year	Beg. Book	Dep.	Amual Dep	Accumulated	Ending Book value
1	75000	33.341	25002	25002	49995
2	49995	33.347	16668,333	41673.333	33326.667
3	33326.667	33.34%	11111-11078	52784.44378	22215.55622
9	222 5,55612	33.347.	7406.66644	60171.11022	14808.88978
5	14808.83978	33.347.	4937.28385	65128.39407	9871.60593
6	9871.60593	39,21967.	3871.60593	69000	6000

6th year Amual Dep= 9877.60593-6000 = 3871.60593

= 39. 2196%

The most appropriate method for depreciation colculation for the asset depends on various factors such as the nature of the asset, its expected useful life, the method of its usage, and its residual value

In this case, the most appropriate method would be the units of the activity method since the number of tittin boxes produced is directly propotional to the machine's usage. As the machine produces more tiltin boxes, the depretiation expense increase, which is more accurate than using the straight-line method or double declining balance method, which assumes a constant rate of depreciation over the assets useful life, irrespective of the level of usage. Therefore, the units of activity method is the most appropriate method for depre viation calculation for the asset.