**Directions: Figure out the total number of boards and total cost to build 5 of these trash cans.**

**Work out your math on paper but write your final answer in the table at the bottom of the page.**

Dimensions of cut boards for one trash can

* A – 18 – 2×4 – 1′ 6″
* B – 4 – 2×4 – 1′ 5 1/2″
* C – 4 – 2×4 – 1′ 8″
* D – 4 – 2×4 – 1′ 2 1/2″
* E – 4 – 2×4 – 3 1/2″
* F – 2 – 2×4 – 1′ 9″ (45-degree angle cuts)
* G – 2 – 2×4 – 1′ 9 1/2″ (45-degree angle cuts)



|  |  |
| --- | --- |
| Materials | price |
| 2”x4”x8’ treated | 3.97 per board |
| Sales tax | 8.00%  |

|  |  |
| --- | --- |
| Number of 2”x4”x8’ boards needed to build 5 cans | Total cost of wood plus taxes to build 5 cans |
|  |  |

**Key**

|  |  |
| --- | --- |
| # of 2”x4”x8’ boards needed to build 5 cans | Total cost of wood plus taxes to build 5 cans |
| 30 | $128.63 |

Grading # of boards Grading total cost

<39 = 0 points $208.63

2 points

37-38 = 2 points $188.63

4 points

35-36 = 4 points $168.63

6 points

33-34 = 6 points $148.63

8 points

31-32 = 8 points $138.63

10 points

**30 = 10 points 10 points = $128.63**

10 points

29-28 = 8 points $118.63

8 points

27-26 = 6 points $108.63

6 points

25-24 = 4 points $88.63

4 points

23-22 = 2 points $68.63

2 points

<21 = 0 $48.63



Multiplied by 5

Tax added back to cost of one can

8% tax applied to one can total cost

6 boards per can

Note: you can figure 30 boards times the cost per board (3.97) and apply tax (8% = $9.53) to net total (119.10) and still come out with the correct answer of $128.63