

Wood Manufacturing & Finishing Percentages Difference

Phase 6

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Percentage Difference

- To find the percentage difference:
- **Divide by what you have and multiply by what you want**
- Eg : if 45% of the cost of a chair is €90. What is the total cost?
- $\frac{90}{45} \times \frac{100}{1} = €200$ or $90 \div 45 \times 100 = €200$
- **Example 1** If 70% is €3150 what is 100%
- $3150 \div 70 = 45$
- $45 \times 100 = €4500$
- **Example 2** If 64% = €96 what is 38%
- $96 \div 64 = 1.5$
- $1.5 \times 38 = €57$

Percentage Difference

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- **Example 3** If 326.25 includes 45% what is 100%
- $326.25 \div 145 = 2.25$
- $2.25 \times 100 = \text{€}225$

- **Q 1.** If I bought a table for x amount and sold it for €552 making a profit of 20%. What price did I pay for the table.
- **Table :** **552 = 120%**
- $552 \div 120 = 4.6$ **divide by 120 to find 1%**
- $4.6 \times 100 = \text{€}460$ **multiply by 100**

Percentage Difference

- **Q 2.** If I bought 20 chairs for x amount and sold them for €405 making a profit of 35%.
- How much did I pay for 1 chair?
- **Chair :** **405 = 135%**
- $405 \div 135 = 3$ **divide by 135 to find 1%**
- $3 \times 100 = €300$ **multiply by 100**
- **To check $300 + 35\% (105) = €405$**
- $300 \div 20 = €15$ price for 1 chair

Percentage Difference Questions

- **Q3.** What is the percentage increase if you increase 240 to 276?

- $276 - 240 = 36$ **difference**

- $36 \div 240 = 0.15 \times 100 = 15\%$ **increase**

- To check $240 + 15\% (36) = \text{€}276$

- **Q4.** What is the percentage decrease if you decrease 400 to 320?

- $400 - 320 = 80$ **difference**

- $80 \div 400 = 0.2 \times 100 = 20\%$ **decrease**

- To check $400 - 20\% (80) = \text{€}320$

Percentage Difference Questions

- **Q5.** If a Dealer bought a Van for €6500 and sold it for €7800 what percentage profit did he make.
- $7800 - 6500 = 1300$ **difference**
- $1300 \div 6500 (0.2) \times 100 = 20\%$ **profit**
- To check $6500 + 20\% (1300) = €7800$

- **Q6.** If a mistake in pricing resulted in windows costing €1250 being sold at €1125 calculate the percentage loss
- $1250 - 1125 = 125$ **difference**
- $125 \div 1250 (0.1) \times 100 = 10\%$ **loss**
- To check $1250 - 10\% (125) = €1125$

Percentage Difference Questions

- **Q7.** If a door and frame costs €420 to make and is sold for €525 calculate the percentage profit
- $525 - 420 = 105$ **difference**
- $105 \div 420 (0.25) \times 100 = 25\%$ **profit**
- To check $420 + 25\% (105) = €525$

- **Q8.** A Contractor priced a job at €97,500. The cost of the job on completion was €105,300 . Calculate the percentage loss
- $105,300 - 97,500 = 7800$ **difference**
- $7,800 \div 97,500 (0.08) \times 100 = 8\%$
- To check $97,500 + 8\% (7800) = €105,300$