

A P.I. R² Mini-Mystery

Who Killed Mr. Prop?

Directions: Solve each equation below by undoing, then use your solutions to eliminate the suspects and solve the mystery.

1. What number is 59% of \$45? 2. What number is 23% of \$115?

3. 16 is what percent of 80? 4. 42 is what percent of 140?

5. \$6.50 is 25% of what number? 6. \$8.07 is 30% of what number?

7. A \$35 item is marked as 25% off. What is the discounted price? 8. The original cost of an item is \$64, but you have to pay \$78.08. What is the markup of the item (as a percent)?

WHO?

<input type="checkbox"/> Mr. Jones	\$25.98
<input type="checkbox"/> Mr. Brown	20%
<input type="checkbox"/> Mr. Patrick	\$27.59
<input type="checkbox"/> Ms. Manns	11%
<input type="checkbox"/> Mrs. Wright	26%
<input type="checkbox"/> Ms. Davis	\$26.90

WHAT?

<input type="checkbox"/> Crowbar	15%
<input type="checkbox"/> Pistol	\$25.08
<input type="checkbox"/> Poison	\$26.45
<input type="checkbox"/> Knife	\$27.41
<input type="checkbox"/> Rope	\$26.12
<input type="checkbox"/> Vase	\$26.00

WHERE?

<input type="checkbox"/> Dining Room	\$25.60
<input type="checkbox"/> Game Room	\$26.25
<input type="checkbox"/> Office	\$25.92
<input type="checkbox"/> Kitchen	\$26.20
<input type="checkbox"/> Bedroom	\$26.55
<input type="checkbox"/> Garage	\$25.80
<input type="checkbox"/> Cellar	\$25.30
<input type="checkbox"/> Library	22%
<input type="checkbox"/> Hall	9.2%
<input type="checkbox"/> Balcony	30%
<input type="checkbox"/> Garden	\$25.00

IT WAS (WHO)

WITH A (WHAT)

IN THE (WHERE)

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| <p>9. If you pay \$26.50 for an item, including 6% sales tax, what was the original price?</p> | <p>10. If the sales tax rate is 8.25%, how much would you pay for an item that costs \$24.00?</p> |
| <p>11. The original price of an item is \$25, but after the discount, you only have to pay \$18.50. What is the discount (as a percent)?</p> | <p>12. You have to pay \$32.65 for an item after a 25% markup. What was the original price?</p> |
| <p>13. A \$22 item has been marked up 15%. What is the new price?</p> | <p>14. After a 15% discount, an item costs \$22.27. What was the original price?</p> |
| <p>15. If the sales tax rate is 7.6%, how much sales tax will you pay on a \$330 item?</p> | <p>16. The price of an item is \$35, but you have to pay \$38.22. What is the sales tax rate?</p> |
| <p>17. A \$32 item is marked as 20% off. What is the sale price?</p> | <p>18. A \$129 product is marked up 20%. How much is the markup?</p> |
| <p>19. An item sells for \$30 and is on sale for 15% off and the sales tax is 8.2%. What is the final cost to the nearest cent?</p> | <p>20. Four friends go out to eat and their meal costs \$86.50. The sales tax is 6.75% and they should tip the waiter 20%. How much should each person pay to the nearest cent?</p> |