Markup and Markdown Worksheet with Answers

Markup and markdown: practice

Name: _____ Date: _____

12 problems · Levels: Basic, Intermediate, Exam-style

Show your work. Read the base of each percent: “on cost” and “on selling price” are different. Keep interim values exact and round money to the nearest cent only in your final answer. Write rates as percents.

1. **Basic** A florist buys a vase for $25 and sells it for $40. Find the markup, the markup on cost and the markup on selling price.

2. **Basic** A bike shop pays $72.50 for a helmet and adds a markup of $27.40. What is the selling price?

3. **Basic** A bakery supplier pays $64 for a mixer attachment and marks it up 45% on cost. Find the selling price.

4. **Intermediate** A shoe store pays $150 for a pair of boots and wants a markup of 25% of the selling price. Find the selling price.

5. **Intermediate** A desk sells for $175 after a markup of 40% on cost. Find the cost.

6. **Intermediate** A backpack sells for $64. The markup is 25% of the selling price. Find the cost.

7. **Intermediate** A store's markup is 25% of the selling price. What is that as a percent of cost?

8. **Intermediate** A tablet case is reduced from $120 to $93. Find the markdown percent.

9. **Intermediate** A monitor priced at $249.99 is marked down 15%. Find the sale price.

10. **Intermediate** A sweater sells for $47.60 after a 15% markdown. What was its original price?

11. **Exam-style** A $300 sofa is marked down 25%, then 20%, then 10%. Find the final price and the single equivalent markdown.

12. **Exam-style** A jacket costs $55 and has an original price of $120. Operating expenses are 20% of the original price and the store wants an $11 profit. Find the lowest acceptable price and the largest markdown percent.

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Answer key

1. Markup $15.00; 60% of cost; 37.5% of selling price.
2. $72.50 + $27.40 = $99.90.
3. Markup $28.80; selling price $92.80.
4. $150.00 ÷ 0.75 = $200.00; markup $50.00.
5. $175.00 ÷ 1.4 = $125.00; markup $50.00.
6. Markup $16.00; cost $64.00 − $16.00 = $48.00.
7. 0.25 ÷ 0.75 ≈ 33.3333% of cost.
8. Markdown $27.00; $27.00 ÷ $120.00 = 22.5%.
9. Markdown $249.99 × 0.15 = $37.4985, rounded to $37.50; sale price $212.49.
10. $47.60 ÷ 0.85 = $56.00; the markdown was $8.40.
11. Net factor 0.54; final price $162.00; single equivalent markdown 46%; total markdown $138.00.
12. Operating expenses $24.00; breakeven price $79.00; lowest acceptable price $90.00; maximum markdown $30.00, which is 25%.

Answers follow the rounding rule above. A percent that does not end is rounded to four decimal places.

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