

Percent Applications: math test solutions, Grade 7 – download the PDF

Test solutions with the detailed point scale. Add up your points and spot what to review.

Suggested time: 45 minutes. Out of 20 points. Calculator allowed only when the problem says so.

1 Quick calculations

/ 4 pts

- a) $0.15 \times 360 = 54$. (1 pt)
- b) $0.06 \times 45 = 2.7$. (1 pt)
- c) $0.035 = 3.5\%$. (1 pt)
- d) $5 \div 8 = 0.625 = 62.5\%$. (1 pt)

2 Percent change

/ 3 pts

- a) $\frac{80 - 64}{64} = \frac{16}{64} = 0.25 = 25\%$ increase. (1.5 pts)
- b) $\frac{90 - 72}{90} = \frac{18}{90} = 0.20 = 20\%$ decrease. (1.5 pts)

3 Discount and markup

/ 4 pts

- a) Discount: $0.40 \times 75 = 30$ (1 pt). Sale price: $75 - 30 = 45$ dollars (1 pt).
- b) Markup: $0.75 \times 28 = 21$ (1 pt). Selling price: $28 + 21 = 49$ dollars (1 pt).

4 Tax and tip

/ 3 pts

- Tax: $0.085 \times 64 = 5.44$ dollars. (1 pt)
- Tip: $0.20 \times 64 = 12.80$ dollars. (1 pt)
- Total: $64 + 5.44 + 12.80 = 82.24$ dollars. (1 pt)

5 Simple interest

/ 3 pts

- $I = 2400 \times 0.035 \times 4 = 336$ dollars. (2 pts)
- Balance: $2400 + 336 = 2736$ dollars. (1 pt)

6 Commission and percent error

/ 3 pts

- a) $0.025 \times 18000 = 450$ dollars. (1.5 pts)
- b) $\frac{|240 - 250|}{250} = \frac{10}{250} = 0.04 = 4\%$. (1.5 pts)



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