ALBERT

Name _____ Date _____

Percent Word Problems Worksheet

Grade 7 · Common Core 7.RP.A.3

> Use proportional relationships to solve multistep ratio and percent problems.

Practice

Builds the skill step by step.

1. A $40 sweater is 25% off. What is the sale price?

2. A $60 meal gets a 20% tip. How much is the tip?

3. Sales tax is 8%. What is the tax on a $25 item?

4. A price rises from $50 to $60. What is the percent increase?

   A. 10%

   B. $16\frac{2}{3}\%$

   C. 120%

   D. 20%

5. A store marks up a $20 item by 50%. What is the selling price?

6. A town's population fell from 800 to 600. What is the percent decrease?

7. A salesperson earns 5% commission on a $2,000 sale. How much is the commission?

8. $500 earns 4% simple interest per year. How much interest is earned in 1 year?

   A. $20

   B. $200

   C. $4

   D. $54

9. A $15 book is on sale for 10% off. What is the sale price?

10. A plant grew from 10 cm to 13 cm. What is the percent increase?

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On Level

Grade-level practice.

1. A $80 jacket is 30% off, and then 6% sales tax is added to the sale price. What is the final cost?

2. $1,200 is invested at 3% simple interest per year. How much interest is earned in 4 years?

3. Ana estimated 50 people would come, but 40 came. What is her percent error?

   A. 25%

   B. 20%

   C. 10%

   D. 80%

4. A restaurant bill is $64. Leo leaves an 18% tip. What is the total he pays?

5. A store buys a lamp for $45 and marks it up 40%. What is the selling price?

6. A shirt is on sale for $21 after a 30% discount. What was the original price?

7. A school's enrollment grew from 450 to 504 students. What is the percent increase?

8. A $250 bike is marked down 15%. What is the sale price?

   A. $235

   B. $37.50

   C. $287.50

   D. $212.50

9. A real estate agent earns 6% commission. How much does she earn selling a $310,000 house?

10. A gallon of milk went from $3.20 to $3.68. What is the percent increase?

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Challenge

Multi-step and word problems that stretch it.

1. A TV is marked down 20%, then the sale price is marked down another 10%. What is the total percent off the original price?

2. A phone costs $480. Store A offers 25% off. Store B offers $100 off and then 5% off the new price. Which is cheaper, and by how much?

3. An investment of $2,500 earns simple interest of $375 in 3 years. What is the annual interest rate?

4. A price goes up 10% and then down 10%. Compared with the starting price, the final price is…

   A. the same

   B. 1% lower

   C. 1% higher

   D. 10% lower

5. Jo measured a board as 1.9 m long. Its actual length is 2 m. What is her percent error?

6. A meal costs $45 before tax. Tax is 8% and the tip is 20% of the pre-tax price. What is the total?

7. After a 25% raise, Kai earns $20 per hour. What did he earn per hour before the raise?

8. A store's cost for a jacket is $60. It sells the jacket for $84. What is the markup percent?

9. Sam says a decrease from 80 to 60 is a 33% decrease because $20 \div 60 \approx 0.33$. What mistake did he make, and what is the correct percent?

10. A salesperson earns $400 per week plus 6% commission on sales. One week she earned $790. What were her sales?