

# Percentages

Fractions, Decimals & % · Grade 7

Score: \_\_\_\_\_ / 10

◆ Medium · 10 Questions

Solve each problem. Show your work in the space provided. Write your answer on the line.

1. A coat costs \$120 after a 20% discount.  
What was the original price?

Answer: \_\_\_\_\_

2. A phone was \$800. It is on sale for 15% off.  
What is the sale price?

Answer: \_\_\_\_\_

3. A \$60 jacket has 25% off. Find the sale price.

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Answer: \_\_\_\_\_

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4. A bike costs \$200. With 8% tax, find total cost.

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Answer: \_\_\_\_\_

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5. A restaurant bill is \$45. Find 20% tip.

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Answer: \_\_\_\_\_

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6. A salesman earns 6% commission on \$5,000 in sales. How much?

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Answer: \_\_\_\_\_

7. 20 of 80 students wear glasses. What percentage wear glasses?

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Answer: \_\_\_\_\_

8. A book's price increased from \$20 to \$25. What is the percent increase?

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Answer: \_\_\_\_\_

9. A \$90 watch is discounted by 30%. Find the sale price.

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Answer: \_\_\_\_\_

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10. A class has 24 students. 75% pass. How many pass?

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Answer: \_\_\_\_\_

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## Answer Key

### Percentages — Medium

**1. \$150**

After 20% off:  $80\% = \$120$ . Original =  $\$120 \div 0.80 = \$150$ .

**2. \$680**

Discount:  $15\%$  of  $800 = \$120$ . Sale price:  $800 - 120 = \$680$ .

**3. \$45**

Discount:  $25\%$  of  $\$60 = \$15$ . Sale:  $\$60 - \$15 = \$45$ .

**4. \$216**

Tax:  $8\%$  of  $\$200 = \$16$ . Total:  $\$200 + \$16 = \$216$ .

**5. \$9**

$20\%$  of  $\$45$ :  $0.20 \times 45 = \$9$ .

**6. \$300**

$0.06 \times \$5,000 = \$300$ .

**7. 25%**

$20/80 = 1/4 = 25\%$ .

**8. 25%**

Increase =  $\$5$ .  $(5/20) \times 100 = 25\%$ .

**9. \$63**

Discount:  $30\%$  of  $\$90 = \$27$ . Sale:  $\$90 - \$27 = \$63$ .

**10. 18 students**

$75\%$  of  $24 = 18$  students.