

## Simple and compound interest

Write each as a percent. Write remainders as a fraction.

1)  $7\frac{2}{5}$

2)  $1\frac{7}{33}$

3)  $9\frac{1}{4}$

4)  $8\frac{27}{40}$

5)  $\frac{3}{4}$

6)  $\frac{9}{10}$

Solve each problem.

7) What percent of 104 is 52?

8) What percent of 147 is 52?

9) 32 is what percent of 42?

10) What percent of 95 is 181.5?

11) What is 59% of 120?

12) What is 196% of 124?

**Find the selling price of each item.**

13) Original price of a puppy: \$349.99  
Discount: 30%  
Tax: 4%

14) Original price of a lizard: \$14.95  
Discount: 22%  
Tax: 4%

15) Original price of a sled: \$149.50  
Discount: 20%  
Tax: 2%

16) Original price of a purse: \$99.99  
Discount: 50%  
Tax: 3%

17) Original price of pants: \$68.50  
Discount: 50%  
Tax: 1%

18) Original price of a cell phone: \$84.50  
Discount: 20%  
Tax: 5%

**Find the total value of the investment after the time given.**

19) \$60,000 at 3% compounded  
semiannually for 9 years

20) \$660 at 15% compounded  
annually for 2 years

21) \$270 at 10% compounded  
annually for 4 years

22) \$425 at 4% compounded  
annually for 2 years

23) \$100 at 15% compounded  
semiannually for 8 years

24) \$52,700 at 9% compounded  
semiannually for 8 years

**Find each percent change. Round to the nearest tenth of a percent. State if it is an increase or decrease.**

25) From 28 to 65

26) From 31 to 61

27) From 35 to 25

28) From 38 to 21

29) From 41 to 86

30) From 45 to 82.9

## Answers to Simple and compound interest

1) 740%

2)  $121\frac{7}{33}\%$

3) 925%

4)  $867\frac{1}{2}\%$

5) 75%

6) 90%

7) 50%

8) 35.4%

9) 76.2%

10) 191.1%

11) 70.8

12) 243

13) \$254.79

14) \$12.13

15) \$121.99

16) \$51.49

17) \$34.59

18) \$70.98

19) \$78,440.44

20) \$872.85

21) \$395.31

22) \$459.68

23) \$318.08

24) \$106,578.91

25) 132.1% increase

26) 96.8% increase

27) 28.6% decrease

28) 44.7% decrease

29) 109.8% increase

30) 84.2% increase