Simple and compound interest

Write each as a fraction.

1) 40%

2) 51%

3) 20%

4) 80%

5) 94.4%

6) 25%

Solve each problem.

7) 179 is what percent of 158?

8) What is 45% of 409?

9) 290% of 71 is what?

10) What is 59% of 495?

11) 65% of what is 421?

12) 87% of what is 269?

Find the selling price of each item.

13) Cost of a lizard: $45.00
   Markup: 89%
   Discount: 50%
   Tax: 4%

14) Cost of a sled: $99.95
   Markup: 90%
   Discount: 15%
   Tax: 1%

15) Cost of shoes: $149.99
   Markup: 25%
   Discount: 37%
   Tax: 3%

16) Cost of a shirt: $54.50
   Markup: 69%
   Discount: 20%
   Tax: 1%

17) Cost of a cell phone: $229.99
   Markup: 29%
   Discount: 20%
   Tax: 6%

18) Cost of concert tickets: $150.00
   Markup: 10%
   Discount: 30%
   Tax: 3%

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

19) $650 at 12.1% compounded
quarterly for 1 year

20) $30 at 7% compounded
quarterly for $2\frac{3}{4}$ years

21) $53,000 at 8.9% compounded
semiannually for 1 year

22) $1,360 at 12.2% compounded
monthly for $6\frac{1}{3}$ years

23) $550 at 12.3% compounded
semiannually for $1\frac{1}{2}$ years

24) $495 at 12.4% compounded
monthly for 1 year

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

25) From 188 to 173

26) From 192 to 37

27) From 195 to 334.6

28) From 140 to 35

29) From 201 to 94

30) From 205 to 390

Answers to Simple and compound interest

1) $\dfrac{2}{5}$

2) $\dfrac{51}{100}$

3) $\dfrac{1}{5}$

4) $\dfrac{4}{5}$

5) $\dfrac{118}{125}$

6) $\dfrac{1}{4}$

7) 113.3%

8) 184.1

9) 205.9

10) 292.1

11) 647.7

12) 309.2

13) $44.23

14) $163.03

15) $121.66

16) $74.42

17) $251.59

18) $118.96

19) $732.29

20) $36.31

21) $57,821.95

22) $2,933.66

23) $657.84

24) $559.99

25) 8% decrease

26) 80.7% decrease

27) 71.6% increase

28) 75% decrease

29) 53.2% decrease

30) 90.2% increase