Write the fractions as decimals and then as percents.

$\dfrac{14}{15}$ $6\dfrac{7}{16}$

1) Decimal = $0.9\overline{3}$ 2) Percent = 93.3% 3) Decimal = 6.4375 4) Percent = 643.75%

Write the percents as decimals and then as simplified fractions.

   246%   0.865%

5) Decimal = 2.46 6) Fraction = $\dfrac{123}{50}$ 7) Decimal = $.00865$ 8) Fraction = $\dfrac{173}{20,000}$

Write the decimals as a percent and then as simplified fractions.

   0.83   2.07

9) Percent = 83% 10) Fraction = $\dfrac{83}{100}$ 11) Percent = 207% 12) Fraction = $\dfrac{207}{100}$

Solve:

23) 65% of 140?   14) 97% of 25?   15) 84% of 263   16) 143% of 71

    91   24.25   220.92   101.53

Estimate to the nearest whole number:

17) 53% of 66?   18) 99% of 36?   19) 18% of 351   20) 69% of 30

   34.98   35.64   63.18   20.7

✱These are the actual answers, so your estimate should be close to this!

Use percent proportions to solve. Round to the tenths place.

21) 55 is what percent of 140?   22) What number is 23% of 25?   23) 88 is 60% of what number?

   39.3%   5.8   146.7

Use percent proportions to solve. Round to the tenths place.

24) What percent of 400 is 16?   25) What number is 4% of 45?   26) 62.5 is 60% of what number?

       4%   1.8   104.2

Find the percent of change and whether the amount *increased* or *decreased*. Round to the nearest whole percent.

27) 40 hours to 63 hours   28) $21,000 to $15,600   29) 30 books to 71 books

    58% increase   26% decrease   137% increase

Find the percent of change and whether the amount *increased* or *decreased*. Round to the nearest whole percent.

30) A stereo was originally sold for $150, but then it was put on sale for $135. Find the percent of change.

    10% decrease

31) The average cost per month of a 2-bedroom apartment in Grayson was $625 last year. This year the average cost is $650. What is the percent of increase from last year to this year?

    4% increase

Solve. Label and round your answers to the hundredths place when necessary.

32) A book costs $20. The sales tax is 6%. What is the price of the book after the sales tax is added?

    $21.20

33) The cost of Ken's car wash was $23.95. If he wants to give his detailer a 15% tip, about how much of a tip should he leave?

    $3.59

Solve. Label and round your answers to the hundredths place when necessary.

34) Jon bought a collectible comic book for $49.62 last year. This year he found out it is worth 28% more. How much is it worth this year?

$63.51

37) A new radio is priced at $30. An electronic store has an end-of-the-year sale. All of the items in the store are discounted by 40%. What is the sale price of the radio?

$18.00

35) Jane received the bill for dinner totaling $63.08. She paid $75, which included the tip. What was the percent of the tip? Round to the nearest whole percent.

19% tip

38) Anna deposited $450 into a savings account earning 3.75% simple interest. What amount of interest will she earn in 6 years?

$101.25

36) Mei buys a suit marked $60. She receives a 33% discount. Find the selling price of the suit.

$40.20

39) Find the simple interest on $900 at 8% for 4 years.

$288.00

What is the original price of each item. Round to the hundredths place

40) A boat is on sale for $13,800. This is 45% of the original price. What is the original price of the boat?

$$\frac{13,800}{x} = \frac{45}{100}$$

$30,666.67

41) A shirt is on sale for $12.48. This is 60% of the original price. What is the original price of the shirt? .

$20.80

42) A pie is on sale for $6.80. This price reflects a 32% discount. What is the original price of the pie?

is 68%
of the
original

$$100 - 32 = 68$$

$$\frac{6.80}{x} = \frac{68}{100} = \boxed{x = \$10}$$