

NAME: key

Period: SCORE: / = %=

Int 1**Unit 8 Review Sheet****Unit 8**

Write the fractions as decimals and then as percents.

$\frac{14}{15}$

$6\frac{7}{16}$

1) Decimal = 0.93 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 = $2\frac{23}{50}$

7) Decimal = .00865 8) Fraction = $\frac{173}{20,000}$

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

0.83

2.07

9) Percent = 83% 10) Fraction = $\frac{83}{100}$

11) Percent = 207% 12) Fraction = $2\frac{7}{100}$

Solve:

1) 65% of 140?

14) 97% of 25?

15) 84% of 263

16) 143% of 71

9124.25220.92101.53~~Estimate to the nearest whole number:~~~~17) 53% of 66?~~~~18) 99% of 36?~~~~19) 18% of 351~~~~20) 69% of 30~~

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%5.75
or 5.8146.6

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

24) What percent of 400 is 16?

4%

25) What number is 4% of 45?

1.8

26) 62.5 is 60% of what number?

104.1 $\bar{6}$
or 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

57.5% ↑

58%

28) \$21,000 to \$15,600

25.7% ↓

26%

29) 30 books to 71 books

136.67% ↑

137%

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% ↓

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% ↑

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

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% ←
(18.9%)

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

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?

\$ 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?

\$10.00