Math 01, Homework 8 on Sections 4.7 - 4.12

Write all your working out and answers on your own notepaper - no need to write the questions. Please use lots of space.

It is very important that you show clearly any work you had to do to get your answers. Just writing the answer down with no work shown is not enough. Every question is worth 2 points.

The solutions to these first 10 questions are on page 2. Check that you get the same answers. If you don't, then look at your notes or the book or ask me. Only do the last eight questions when you are sure you understand the first ten.

(1) Compute: 38.92×10^{-3}

(2) Calculate: 14.093×9.2

(3) Multiply: $(-6)(-0.9)(-0.11)$

(4) Compute, using the bar notation for a repeating decimal: $0.07 \div 9$

(5) Calculate exactly: $43.032 \div 0.22$

(6) Convert into scientific notation **(a)** 19340 **(b)** 0.0067

(7) Express in scientific notation: $(5 \times 10^9)(3 \times 10^6)$

(8) Convert these decimals or percents into fractions or mixed numbers in lowest terms
(a) 0.25 **(b)** 98% **(c)** 3.15

(9) Convert $1/12$ to a percent, rounded to the nearest tenth of a percent.

(10) A $\$500$ television is being sold at a 15% discount. What is the sale price?

Eight more questions[1]. Show clearly all your working out and reasoning.

(11) Calculate: 76.23×5.06

(12) Multiply: $(3.9)(-7.2)(0.44)$

(13) Compute, using the bar notation for a repeating decimal: $6.01 \div 3$

(14) Calculate exactly: $73.814 \div 0.13$

[1] questions continue on page 2

(15) Convert into scientific notation **(a)** 0.00000094 **(b)** 780030000

(16) Convert these decimals or percents into fractions or mixed numbers in lowest terms
(a) 0.45 **(b)** 15% **(c)** 2.8

(17) Convert $2/13$ to a percent, rounded to the nearest tenth of a percent.

(18) A $\$280$ television is being sold at a 30% discount. What is the sale price?

Answers to questions (1)-(10):

(1) 0.03892

(2) 129.6556

(3) -0.594

(4) $0.00\overline{7}$

(5) 195.6

(6) **(a)** 1.934×10^4 **(b)** 6.7×10^{-3}

(7) 1.5×10^{16}

(8) **(a)** $\frac{1}{4}$ **(b)** $\frac{49}{50}$ **(c)** $3\frac{3}{20}$

(9) 8.3%

(10) The sale price is $\$425$