

## Math 01, Homework 8 on Sections 4.7 - 4.12

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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. All 18 questions are worth 2 points each.

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Do these first 10 questions and *check that your answers match the solutions on page 2*. If you don't get the same answers then try to fix them by looking at your notes or the book or asking me. Only do the last eight questions when you are sure you understand the first ten.

- (1) Compute:  $38.92 \times 10^{-3}$
  - (2) Calculate:  $14.093 \times 9.2$
  - (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?
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Eight more questions<sup>1</sup>. Show clearly all your working out and reasoning.

- (11) Calculate:  $76.23 \times 5.06$
- (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:  $73.814 \div 0.13$

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<sup>1</sup>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  $\frac{2}{13}$  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?
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**Answers to questions (1)-(10):**

- (1) 0.03892
- (2) 129.6556
- (3) -0.594
- (4)  $0.00\bar{7}$
- (5) 195.6
- (6) (a)  $1.934 \times 10^4$  (b)  $6.7 \times 10^{-3}$
- (7)  $1.5 \times 10^{16}$
- (8) (a)  $\frac{1}{4}$  (b)  $\frac{49}{50}$  (c)  $3\frac{3}{20}$
- (9) 8.3%
- (10) The sale price is \$425