

**Math 01, Homework 2 on Sections 1.7 - 1.9, 2.1 - 2.4**

**Hand in by Wed, Feb 17 at the start of class.**

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Write all your working out and answers on a separate sheet. It is very important that you show clearly any work you had to do to get the answer. These first ten questions are 2 points each and **the answers are on page 2.**

- (1) Evaluate:  $4 + 16 \div 4$
- (2) Find:  $2 \cdot 6 + 2(\sqrt{36} - 1)$
- (3) Find:  $[18 \div (9 \div 3)]^2$
- (4) Calculate:  $16^2 - \sqrt{16} - 8 + 4$
- (5) Find the average of this list of numbers: 2, 3, 5, 6, 9, 11
- (6) A rectangle has width 4 inches and length 5 inches. Calculate (giving the correct units):  
(a) its area, (b) its perimeter
- (7) Decide if these statements are True or False: (a)  $6 > 1$ , (b)  $-4 < 2$ , (c)  $5 > -5$
- (8) Evaluate: (a)  $10 + (-7)$ , (b)  $-16 + 11$
- (9) Compute: (a)  $-6 + (-5)$ , (b)  $(-4) + (-5) + (-6)$
- (10) Compute: (a)  $10 - (-7)$ , (b)  $-17 - (-13)$
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These next eight<sup>1</sup> questions are 2 points each. Show clearly all your working out and reasoning.

- (11) Evaluate:  $9 \cdot 6 \div 3 \cdot 3$
- (12) Find:  $6 + 5 \cdot 3$
- (13) Compute:  $20 - \sqrt{100 + 25} - 4$
- (14) Find:  $10 - 9 + 8 \cdot 7 \div 2^3$
- (15) A rectangle has width 7 feet and length 9 feet. Calculate (giving the correct units):  
(a) its area, (b) its perimeter
- (16) Evaluate: (a)  $14 + (-9)$ , (b)  $-10 + 6$
- (17) Compute: (a)  $-5 + (-7)$ , (b)  $(-133) + (-92)$

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<sup>1</sup>One more question on the next page!

**(18) Compute: (a)  $9 - (-8)$ , (b)  $-19 - (-19)$**

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**Answers to questions (1)-(10):**

- (1) 8
- (2) 22
- (3) 36
- (4) 248
- (5) 6
- (6) (a) area is 20 square inches, (b) perimeter is 18 inches
- (7) (a) True, (b) True, (c) True
- (8) (a) 3, (b) -5
- (9) (a) -11, (b) -15
- (10) (a) 17, (b) -4