Name: _____   Date: _____

Chapter 2 Test

For #1 to #4, choose the letter representing the term that best matches each description.

1. _____ The accepted order for finding   **A** estimate
the value of math expressions   **B** order of operations
2. _____ A reasonable guess   **C** underestimate
3. _____ An estimate that is larger than **D** overestimate
the answer
4. _____ An estimate that is smaller
than the answer

For #5 to #9, select the correct answer.

5. Calculate the answer to 15.25 + 6.53 − 9.2.
   A 30.92   **B** 20.86   **C** 17.31   **D** 12.58

6. Calculate the answer to 85.6 − 14.83.
   A 71.73   **B** 71.23   **C** 70.87   **D** 70.77

7. Estimate the answer to 8.75 × 31.88 using front-end estimation.
   A 240   **B** 270   **C** 2400   **D** 2700

8. Calculate the answer to 8.1 ÷ (0.65 + 3.3).
   A 2.05   **B** 12.46   **C** 15.76   **D** 31.99

9. Marna cycles 38.4 km daily from Monday through Friday every week. What is the best estimate of the total distance she travels in 1 month?
   A 500 km   **B** 800 km   **C** 1000 km   **D** 1200 km

For #10 and #11, complete the statement.

10. The sum of 84 hundredths and 3 tenths is _____.

11. When calculating 5 + 3 × (12 − 7) − 11, the operation of _____ is performed first.

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Short Answer

12. Without finding the answer, place the decimal point in the correct position. Show your thinking.
  a) $0.697 + 0.21 + 0.5 = 1407$ **b)** $38.24 - 27.65 = 1059$
  c) $5.8 \div 0.293 = 197952$ **d)** $24 \times 0.073 = 17520$

13. What is the value of each expression?
  a) $157.95 + 3.7 \times 4 + 2$ **b)** $14.6 - 5.25 \times 2.3$

14. Rewrite each statement using brackets to make a true statement.
  a) $5.4 - 4 \times 0.12 = 0.168$ **b)** $7.1 + 6.8 \times 3 \div 0.4 = 104.25$
  c) $6.7 \div 0.3 + 5.2 \times 3.9 = 4.75$ **d)** $9.3 - 5.5 \times 2.7 + 0.6 = 12.54$

15. Four friends form a landscaping company. In one week, they have 5 clients that pay the following amounts: $270, $315, $295, $425, and $330.

  If the friends share the money equally, determine how much each person receives from the work. Show your calculations.

16. Margie's company manufactures pens. An empty box costs $0.12. Each pen costs $0.15. One full box holds 8 pens. Calculate the cost of manufacturing 100 boxes of pens. Show your work.

Extended Response

17. Terry pays $18 per year to purchase music at reduced prices. Last year, she paid $17.30 each for 3 CDs and $24.65 each for 4 DVDs.
  a) Terry's sister, Jana, wrote the following expression to calculate how much Terry spent on music last year.
      $18 + 17.30 \div 3 + 24.65 \div 4$
      Evaluate Jana's expression.
  b) Terry estimates that she spent $165 in total. How does Terry's estimate compare with the calculation according to Jana? If the answers are not close, who do you think is correct? What mistake did the other girl make?
  c) Calculate the actual amount Terry spent on music last year.
  d) Was Terry's estimate in part b) an underestimate or an overestimate?