

Math 01, Homework 6 on Sections 3.11 - 3.13

Hand in by Mon, Mar 21 at the start of class.

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) Find: $10\frac{1}{5} + 6\frac{2}{5}$
- (2) Compute: $2\frac{3}{4} + 4\frac{2}{3}$
- (3) Calculate: $8 - 3\frac{4}{7}$
- (4) A carpenter cuts a 3 feet 8 inch piece of board from a 9 feet 3 inch piece. What is the length of the leftover piece?
- (5) Subtract $3\frac{4}{5}$ from $1\frac{1}{3}$. Write your answer as a mixed number.
- (6) Find: $\left(1\frac{2}{3}\right)\left(-3\frac{4}{7}\right)$
- (7) Compute: $\left(-4\frac{3}{5}\right) \div \left(-\frac{2}{5}\right)$
- (8) Evaluate: $\left(-\frac{3}{4}\right)^2 - 1\frac{1}{4}$
- (9) Calculate: $\frac{1}{6} - \frac{1}{7} + \frac{20}{21}$
- (10) Find: $5 - \left(1\frac{2}{3} + \frac{3}{2} \cdot \frac{1}{2}\right)$
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These next eight questions are 2 points each. Show clearly all your working out and reasoning.

- (11) Compute: $8\frac{7}{9} + 1\frac{1}{3}$
- (12) Calculate: $5 - 4\frac{2}{9}$
- (13) A carpenter cuts a 5 feet 11 inch piece of board from a 10 feet 9 inch piece. What is the length of the leftover piece?

(14) Subtract $4\frac{5}{6}$ from $2\frac{1}{4}$. Write your answer as a mixed number.

(15) Find: $\left(-2\frac{2}{5}\right)\left(2\frac{4}{5}\right)$

(16) Compute: $\left(-3\frac{1}{7}\right) \div \left(-\frac{4}{5}\right)$

(17) Evaluate: $\left(\frac{3}{5}\right)^2 - 2\frac{1}{5}$

(18) Find: $6 - \left(3\frac{1}{2} + \frac{2}{3} \cdot \frac{1}{3}\right)$

Answers to questions (1)-(10):

(1) $16\frac{3}{5}$

(2) $7\frac{5}{12}$

(3) $4\frac{3}{7}$

(4) A 5 feet 7 inch piece is left.

(5) $-2\frac{7}{15}$

(6) $-5\frac{20}{21}$

(7) $11\frac{1}{2}$

(8) $-\frac{11}{16}$

(9) $\frac{41}{42}$

(10) $2\frac{7}{12}$