

Assignment 1
Math 212

Work the following problems without the calculator. Copy and show work downward on a separate sheet of paper. Circle your answers. After you finish, check the problems with your calculator and correct the problems that you miss. Staple this sheet to the front. Be neat and organized.

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|---------------------------------------|------------------------------|-----------------------------|
| 1) $\$595 + \$73.28 + \$1479 + \$.93$ | 2) $82 + .312 + 62.4 + 1.96$ | 3) $647 + 29.18 + 34 + 8.6$ |
| 4) $\$3597 - \1478.29 | 5) $14.741 - 6$ | 6) $514 - 27.65$ |
| 7) 396.7×43.6 | 8) 42×95.7 | 9) $.09 \times 6.32$ |

For problems 10 – 12, round the answer to the second decimal place

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|-----------------------------|---------------------------|---------------------|
| 10) $7.3 \overline{)6.428}$ | 11) $2.4 \overline{)452}$ | 12) $39.5 \div 300$ |
|-----------------------------|---------------------------|---------------------|

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|----------------------------|--|
| 13) Reduce: $\frac{10}{8}$ | 14) Write the ratio of 3 yards to 8 feet |
| 15) $\frac{5}{16}$ means | |
| a) sixteen fifths | b) five divided into sixteen |
| c) 5 divided by 16 | d) 16 divided by 5 |
| | e) none of these. |

For problems 16 – 21, reduce the answers to lowest terms

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|--------------------------------------|--------------------------------------|--------------------------------------|
| 16) $\frac{3}{4} \times \frac{4}{5}$ | 17) $3\frac{2}{5} \div 1\frac{1}{4}$ | 18) $4\frac{3}{4} \div 2\frac{1}{5}$ |
| 19) $1\frac{3}{4} + 2\frac{1}{3}$ | 20) $2\frac{1}{5} - 1\frac{5}{8}$ | 21) $5\frac{5}{16} - 3\frac{3}{4}$ |

22) Which of the following is a digit?

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|------|-------|------------------|-----------|
| a) 5 | b) 32 | c) $\frac{1}{8}$ | d) 10^3 |
|------|-------|------------------|-----------|

23) The square of 9 is

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|-------|------------------|------|------------------|-------|
| a) 81 | b) $\frac{9}{2}$ | c) 3 | d) $\frac{1}{9}$ | e) 18 |
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24) The 'square root' of 4 is

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|------|-------|------|------------------|------|
| a) 8 | b) 16 | c) 2 | d) $\frac{1}{9}$ | e) 1 |
|------|-------|------|------------------|------|

Write the following in words,

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| 25) 800053 | 26) 7.257 |
|------------|-----------|

27) Write the number 'fifty and eight hundred fourteen thousandths'

Round 7969.385 as follows

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|---------------------|--------------------|------------------|
| 28) nearest hundred | 29) nearest tenths | 30) nearest ones |
|---------------------|--------------------|------------------|

31) Write the decimal equivalent of 5%

32) Write the fractional equivalent of $37\frac{1}{2}\%$

33) Write the decimal equivalent of $\frac{2}{5}\%$

34) Solve the equation, $\frac{4}{5}n = 16$

35) 12 is 35% of what number? Find the number.

Write an algebraic expression that represents the sentence. Let x represent the number.

36) Ten more than five times a number 37) Two less than the quotient of four and a number

38) If $x = 3$ and $y = 4$, find the value of $3x - y$.

Simplify

39) $|-8.3|$

40) $-30 - (-10)$

41) $-6.2 + (-5.9)$

42) $(-3)^3$

43) $6 \div \left(-\frac{2}{5}\right)$

44) $10^2 - 100 \div 5^2 \cdot 2 - 3$

45) $\frac{(5-6)^2 - 2|3-7|}{89-3 \cdot 5^2}$

46) $7 - 4[3 - (4y - 5)]$

Solve the equations:

47) $3(x - 4) - 4(x - 3) = x + 3 - (x - 2)$

48) $8y - 3 = 11y + 9$

49) $14 - 5x = -41$

Simplify completely

50) $3x^4 \cdot 2x^3$

51) $(-3x^4y^0d)(-7xyd^3)$

52) $\frac{36x^{12}y^4}{4xy^2}$

53) $(2xy^2)^3$

54) $\frac{x^3}{x^9}$

55) If $g(x) = 4x - 3$, find $g(-5)$