

## Review for Test #1 over Ch 1

**Work all the problems on a separate piece of paper showing all steps.** For each problem, first work it by hand and then check it using a calculator.

### Find the following:

- 1) The total of 567, 89, 8, 9889, and 731.
- 2) The product of 453 and 78.
- 3) The difference between 17,892 and 8998.
- 4) The sum of 12, 34, 566, and 980.
- 5) The quotient of 15,510 and 15.
- 6) 1623 less than 18,002.
- 7) 899 subtracted from 1926.
- 8) 7470 divided by 15 less 300.
- 9)  $15 \div 0$

### Round off the following numbers to the indicated place value:

|     | Number     | Tens | Hundreds | Thousands |
|-----|------------|------|----------|-----------|
| 10) | 47,651,789 |      |          |           |
| 11) | 47,499     |      |          |           |
| 12) | 17         |      |          |           |
| 13) | 305        |      |          |           |
| 14) | 18,932     |      |          |           |

### Simplify the following:

- |   |   |
|---|---|
| 15) $20 - 20 \div 10 + 6 \times \sqrt{4}$     | 16) $3^2 - \{10 \div 5\} + 4(6 - 3)^2$            |
| 17) $10 - 4^1 \cdot 2 \div 2 + (4^2 - 4) + 1$ | 18) $2^4 \div ([7 - 5]^2 + 8 \div 2) + \sqrt{36}$ |
| 19) $(8 - 2)^2 - 16 \div 4\{4\} + 0 \div 12$  | 20) $5 + 2(20 - 15 \div 5) - 11(0)3$              |

**Estimate the following by rounding to the indicated place value:**

- 21) 17,934 times 523. (hundreds)      22) 5765 minus 793 plus 397 divided by 43. (tens)

**Solve the following:**

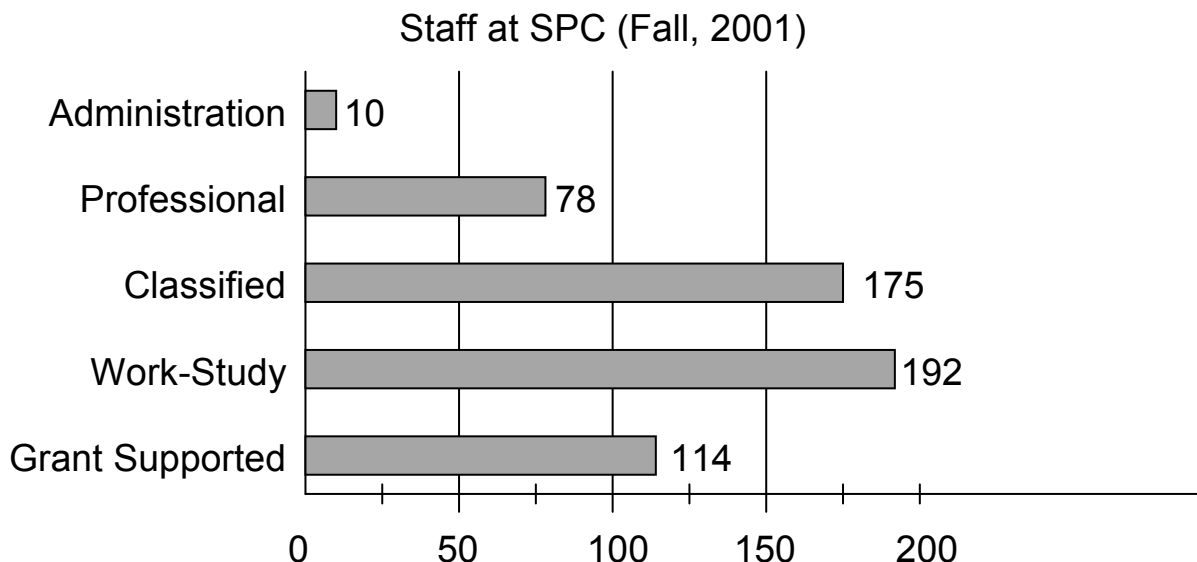
- 23) The Coyote (Verious Hungryii) has a \$3500 line of credit with the Acme® Corporation. If he makes purchases of \$1175, \$954, and \$231 and makes a payment of \$1500, how much can he still purchase from Acme®?
- 24) Bugs Bunny buys six cans of carrot juice for 35¢ each, five bags of carrots for 105¢ each, and six heads of lettuce for 99¢ each. If he had 1400 pennies initially, how many pennies does he have left?
- 25) The Coyote (Extremious Soreii) had vets bills of \$356, \$151, \$67, \$212, \$587, and \$67 for the first six months of this year. Find his average monthly bill. If he earns \$752 per month from Warner Brothers®, how much money did he have left after his medical bills for the six-month period?
- 26) Tweety-Bird has 112 ounces of birdseed. If he eats 2 ounces of birdseed a day, how many weeks can he go before he has to buy more birdseed?
- 27) Sandy Cheeks paid three times as much as Sponge-Bob Square Pants for a lawn mower. If Sandy paid \$396 for her lawn mower, how much did Sponge-Bob pay for his?
- 28) Sponge-Bob can make thirty Krabby-Patties in two minutes. If there are two hundred forty anchovies to be fed, how many minutes will it take for Sponge-Bob to make them all a Krabby-Patty?

**Write the each number in words:**

29a) 76,951

29b) 15,900,023

**Use the graph below to answer the following:**



From Planning, Research and Effectiveness at SPC

- 30a) How many more people work as Grant Supported Staff than as Professional and Administration Staff combined?
- 30b) If 496 people were employed as faculty in the fall of 2001, how many more staff personnel were there than faculty in that semester?

**In the problems below, the student has made an error. Use critical thinking to find and correct the error. Then finish working the problem.**

31)  $13,405 + 3434 + 578 + 435$

Solution:

$$\begin{array}{r}
 1 \ 2 \\
 13405 \\
 3434 \\
 578 \\
 + 435 \\
 \hline
 17752
 \end{array}$$

32)  $8653 - 1789$

Solution:

$$\begin{array}{r}
 1 \ 5 \ 4 \ 1 \ 3 \\
 8 \ 6 \ 5 \ 3 \\
 - 1 \ 7 \ 8 \ 9 \\
 \hline
 7 \ 8 \ 6 \ 4
 \end{array}$$

**In the problems below, the student has made an error. Use critical thinking to find and correct the error. Then finish working the problem.**

33)  $385 \cdot 605$   
Solution:

$$\begin{array}{r} 385 \\ \times 605 \\ \hline 1925 \\ + 23100 \\ \hline 25025 \end{array}$$

34)  $25538 \div 42$   
Solution:

$$\begin{array}{r} 68 \text{ R. } 2 \\ 42 \overline{)25538} \\ \underline{-252} \phantom{00} \\ 338 \\ \underline{-336} \\ 2 \end{array}$$

35)  $15(8 + 12 \div 4) - 5 + 4$   
Solution:

$$\begin{aligned} &15(8 + 12 \div 4) - 5 + 4 \\ &= 15(20 \div 4) - 5 + 4 \\ &= 15(5) - 5 + 4 \\ &= 75 - 5 + 4 \\ &= 70 + 4 \\ &= 74 \end{aligned}$$

**Without working the problems, use critical thinking to determine which answers are unreasonable:**

36)  $12 \overline{)2\#\#, \#\#\#}$

- a) 201,300    b) 2130    c) 213    d) 20,131    e) 21,031

37)  $\begin{array}{r} 37\#\# \\ \times 20\# \\ \hline \end{array}$

- a) 10,528    b) 770,688    c) 77,848    d) 4,918    e) 80,008

38)  $1,1\#\#+ 3,8\#\#+ 4\#+ 5,6\#\#+ 7\#$

- a) 8,955    b) 10,875    c) 19,665    d) 11,025    e) 7,875

**Without working the problems, use critical thinking to determine which answers are unreasonable:**

- 39) 120,000 – 10,###  
 a) 109,123    b) 110,978    c) 109,124    d) 111,022    e) 109,024
- 40) The average of 2#, 5#, 4#, 4#, and 5#  
 a) 46    b) 19    c) 233    d) 62    e) 49

**Answers**

- 1) 11,284    2) 35,334    3) 8,894    4) 1592    5) 1034  
 6) 16,379    7) 1027    8) 198    9) Undefined  
 10) 47,651,790; 47,651,800; 47,652,000    11) 47,500; 47,500; 47,000  
 12) 20; 0; 0    13) 310; 300; 0    14) 18,930; 18,900; 19,000  
 15) 30    16) 43    17) 19    18) 8    19) 20    20) 39  
 21) 8,950,000    22) 4990    23) \$2,640    24) 71 pennies  
 25) Monthly average vet bill is \$240, \$3072 total after bills    26) 8 weeks  
 27) \$132    28) 16 minutes    29a) Seventy - six thousand, nine hundred fifty - one  
 29b) Fifteen million, nine hundred thousand, twenty - three  
 30a) 26 people    30b) 73 people    31) 17,852    32) 6,864    33) 232,925  
 34) 608 R. 2    35) 164    36) a, b, c    37) a, c, d, e    38) a, c, e    39) b, d  
 40) b, c, d