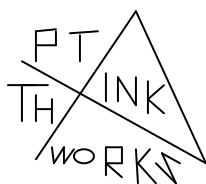


Score #1: _____	Score #2: _____	Score #3: _____	_____
S & G _____	S & G _____	S & G _____	<b>Final Score</b>
Grader: _____	Grader: _____	Grader: _____	
Name: _____			
School: _____			
Grade: 4 <sup>th</sup> 5 <sup>th</sup>			



## Elementary Calculator #2

2014-2015

### General Directions

This test will last for 30 minutes. There are 80 problems on the test.

Write all of your answers using three significant digits.

Correct forms include: 14.5, 145, 145. ,  $1.45 \times 10$ ,  $1.45 \times 10^7$

Incorrect forms include: 14.50,  $1.45(10)^3$ ,  $1.450 \times 10^2$ , 1.45E5

Plus or minus one digit error in the third significant digit is OK.

For word problems, use three significant digits unless the answer blank calls for INT (which means integer) or unless the answer involves money (round to the nearest penny).

Scoring: All problems correctly answered are worth 5 points. Four points will be subtracted for all misses or skips before the last problem attempted.

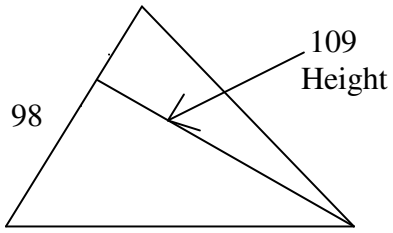
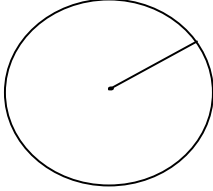
# ELEMENTARY CALCULATOR 2014-2015

## TEST #2

1.  $4251 + 9012$  ----- 1= \_\_\_\_\_
2.  $2015 - 406 + 1027$  ----- 2= \_\_\_\_\_
3.  $769120 + 362$  ----- 3= \_\_\_\_\_
4.  $34 \times 76 \times 98$  ----- 4= \_\_\_\_\_
5.  $820331 - 206550 - 320415$  ----- 5= \_\_\_\_\_
6.  $809 + 3496 + 892 - 5020$  ----- 6= \_\_\_\_\_
7.  $80240 - 67 - 45702$  ----- 7= \_\_\_\_\_
8.  $46191 - 267 \times 45$  ----- 8= \_\_\_\_\_
9.  $831 \times 439 \times 205$  ----- 9= \_\_\_\_\_
10.  $(193 + 657) \times (67 + 507)$  ----- 10= \_\_\_\_\_
11. Hailey and Katelyn sometimes buy their lunch at school and sometimes they take their lunch to school. The school lunch costs \$2.15. In the month of October, Katelyn bought lunch 12 times and Hailey bought lunch 11 times. How much did they spend on lunch in October? 11= \$ \_\_\_\_\_
12. Rylie played baseball with her younger brother, Wesley. She tossed 18 pitches to him. He made contact with his bat on 7 pitches. What fraction of the pitches did he hit? 12= \_\_\_\_\_
13. Bryan deposited \$22,590.00 in an investment account. At the end of one year, he gained \$1,231.58 in returns on the investment. At the end of the year, what rate of return did this represent on his investment? 13= \_\_\_\_\_ %

14.  $0.2015 + 0.2015 + 0.2015$  ----- 14= \_\_\_\_\_
15.  $56^3 - 93.080 \times 34.00009$  ----- 15= \_\_\_\_\_
16.  $68.34 + 4.2000 + 71.025$  ----- 16= \_\_\_\_\_
17.  $[97 + (803 - 47)] + 31(3.62 + 0.90810)$  ----- 17= \_\_\_\_\_
18.  $(865 - 12)(902 - 7.33 \times 45) + 91^3$  ----- 18= \_\_\_\_\_
19.  $0.584 \times 87.61 \times 8.9010$  ----- 19= \_\_\_\_\_
20.  $2014 \times 2014 - 114 \times 2014$  ----- 20= \_\_\_\_\_
21.  $.0809 + 576 \times 4^{3/4}$  ----- 21= \_\_\_\_\_
22.  $9880 [5^{1/2} + 3/4]$  ----- 22= \_\_\_\_\_
23.  $0.31415 + 0.92 - 8\pi \times 9.00002$  ----- 23= \_\_\_\_\_
24. Lara worked at the hospital for eight days in September.  
What fraction of the days in September did she work?  
24= \_\_\_\_\_
25. Allyson took a vacation to San Francisco with two college friends. She flew 771 miles from Austin to Denver. From Denver she flew 921 miles to San Francisco. On the return trip, she flew to Denver and then back to Austin. What was the total mileage she flew on her vacation? 25= \_\_\_\_\_
26. Nathan and Rick play on a recreational soccer team. During an 8 game season, their team averaged exactly 2.625 goals per game. How many goals did their soccer team score in the 8 game season?  
26= \_\_\_\_\_ int.

27.  $[(229 + 1) + 0.03637] (.076 / .772) + 8.3371101$  ----- 27= \_\_\_\_\_
28.  $\sqrt{80912} + 37.2 + \sqrt{68155}$  ----- 28= \_\_\_\_\_
29.  $(907 - 31.7) + 7902 - 6423$  ----- 29= \_\_\_\_\_
30.  $\frac{\sqrt{56298}}{4.2318} + \sqrt[4]{24672}$  ----- 30= \_\_\_\_\_
31.  $7098 + 27 \times 54 - 9064 + 3992 + 6.2$  ----- 31= \_\_\_\_\_
32.  $7098 + 27 + 54 \times 9064 + 3992 + 6 \times 2$  ----- 32= \_\_\_\_\_
33.  $(2015 - 2015) + 9087 - 88$  ----- 33= \_\_\_\_\_
34.  $\frac{78904.34}{2.1076} + 83.727$  ----- 34= \_\_\_\_\_
35. On her calculator test, Ella stopped working after she completed problem #71. She missed 3 problems and skipped 2 problems. What was her score on the test? 35= \_\_\_\_\_ int.
36.  $754^{2027}$  36= \_\_\_\_\_

TRIANGLE	CIRCLE
 <p style="margin-left: 100px;">109 Height</p> <p style="margin-left: 10px;">98</p> <p style="margin-left: 100px;">121</p> <p style="margin-left: 100px;">AREA = ?</p> <p>37= _____</p>	 <p style="margin-top: 20px;">RADIUS = ?</p> <p style="margin-top: 10px;">CIRCUMFERENCE = 147.65</p> <p>38= _____</p>

39.  $(1776 + 18.63)^2$  ----- 39= \_\_\_\_\_

40.  $\sqrt{76.45 + 83.8} - 35.98 + 1.701^3$  ----- 40= \_\_\_\_\_

41.  $(98 - 44.51) - 915 + 4019$  ----- 41= \_\_\_\_\_

42.  $763 + 7.921^2 + \frac{\sqrt{56.239}}{\sqrt[5]{68923}}$  ----- 42= \_\_\_\_\_

43.  $20152014 - 9.572$  ----- 43= \_\_\_\_\_

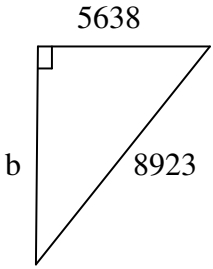
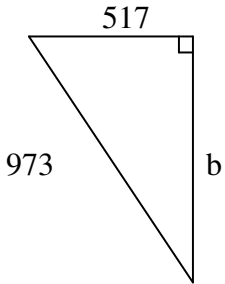
44.  $37^3 - 2014 - 6.83 - 8710 - 197$  ----- 44= \_\_\_\_\_

45.  $490220 \div 73 \div 54$  ----- 45= \_\_\_\_\_

46.  $\frac{\sqrt{56299}}{\sqrt{782.57}} - 34.20111$  ----- 46= \_\_\_\_\_

47. Subtract the cube root of 489 from the square of 92. Now add 365. Now decrease this result by the square of 84. What is the final result of the calculation? ----- 47= \_\_\_\_\_

48. Four consecutive positive odd integers (whole numbers) are added together. The sum of the four integers is 3192. What is 8 more than the smallest of the four integers?----- 48= \_\_\_\_\_ int.

<p style="text-align: center;"><b>RIGHT TRIANGLE</b></p>  <p style="text-align: center;">Length of side b = ?</p> <p>49= _____</p>	<p style="text-align: center;"><b>RIGHT TRIANGLE</b></p>  <p style="text-align: center;">Perimeter of triangle = ?</p> <p>50= _____</p>
---	---

51.  $\sqrt[5]{201414} + 1952^4 + 62 + \pi^3$  ----- 51= \_\_\_\_\_

52.  $(32! + 5!) + 357.34 + 27!$  ----- 52= \_\_\_\_\_

53.  $(2014 - 803.25)^2$  ----- 53= \_\_\_\_\_

54.  $(795 + 307)^2 + \text{Ln}(e)$  ----- 54= \_\_\_\_\_

55.  $8093 - 761 + \sqrt{9083}$  ----- 55= \_\_\_\_\_

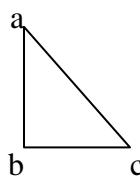

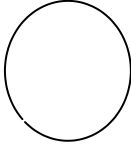
56.  $2014 - (\sqrt{1024})^2 - 1492 + 1492$  ----- 56= \_\_\_\_\_

57.  $9245 + \sqrt{14400} + 92 \times 25$  ----- 57= \_\_\_\_\_

58.  $(\text{deg}) \tan(34^\circ) + 12\cos(54^\circ)$  ----- 58= \_\_\_\_\_

59. Jan drove from Nacogdoches to Killeen in 4.25 hours. Her odometer read 45,902 when she left Nacogdoches and read 46,091 when she arrived in Killeen. What was her average speed in miles per hour for the trip?  
59= \_\_\_\_\_

60. Tom painted 40 linear feet of a 6-foot fence in 4.25 hours. Huck painted 40 linear feet of a 6-foot fence in 5.2 hours. If they worked together on 80 linear feet of 6-foot fence, how long should it take them to paint the 80 linear feet?  
60= \_\_\_\_\_

RIGHT TRIANGLE AND CIRCLE	SEMICIRCLE
 <p style="margin-left: 100px;"><math>ac = 84.5 \quad bc = 56.3</math></p> <p style="margin-left: 100px;"><math>\text{radius} = \frac{2}{3} \times bc</math></p>	 <p>Area of semicircle = 873</p> <p>Diameter = ?</p>
<p>Total perimeter of both shapes is ??</p>  <p>61= _____</p>	<p>62= _____</p>

63.  $14! + 74,562 + 53!$  ----- 63= \_\_\_\_\_

64.  $(\text{deg}) \sin(57^\circ) + 8\tan(22^\circ)$  ----- 64= \_\_\_\_\_

65.  $2014\pi^2 + 807 + 51e$  ----- 65= \_\_\_\_\_

66.  $(\text{rad}) \sin(7\pi) + \pi$  ----- 66= \_\_\_\_\_

67.  $8! + 4092 - \pi(3.1415926)$  ----- 67= \_\_\_\_\_

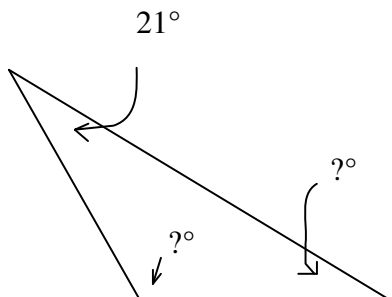
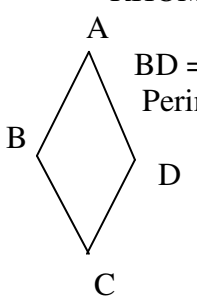
68.  $(\text{deg}) \tan(32^\circ) + \cos(48^\circ)$  ----- 68= \_\_\_\_\_

69.  $(88.7 + 31.75)^{8.201357}$  ----- 69= \_\_\_\_\_

70.  $(\text{rad}) \sin(8\pi + 2\pi) + 2015$  ----- 70= \_\_\_\_\_

71. Rylie and Katelyn started kindergarten this year. They both bought crayons for their school supplies. Rylie bought a 64 crayon pack. Katelyn purchased a 48 crayon pack. Before school started, they examined their crayons and noticed that every 8th crayon was a shade of red. What fractional part of their crayons was a shade of red?-- 71= \_\_\_\_\_

72. On the number line, how far is it from negative 367 to positive 832? ----- 72= \_\_\_\_\_ int.

<p style="text-align: center;"><b>ISOSCELES TRIANGLE</b></p>  <p style="text-align: center;">Measure of the larger missing angle?</p> <p>73= _____</p>	<p style="text-align: center;"><b>RHOMBUS ABCD</b></p>  <p style="text-align: center;">Area of the rhombus?</p> <p>74= _____</p>
---	--

- 75.  $\text{Log}(98246)$  ----- 75= \_\_\_\_\_
- 76.  $\text{Ln}(54.6 + 92.3528)$  ----- 76= \_\_\_\_\_
- 77.  $2014^{7.91} + 83^{2.48}$  ----- 77= \_\_\_\_\_
- 78.  $\text{Log}(10^{835}) + \text{Log}(10^{47})$  ----- 78= \_\_\_\_\_
- 79.  $1776 + e^{1776}$  ----- 79= \_\_\_\_\_
- 80.  $55 + 57 + 59 + 61 + \dots + 195 + 197 + 199$  ----- 80= \_\_\_\_\_



Calculator #2      2014 - 2015 Key      4<sup>th</sup>-5<sup>th</sup> grade

Answers may be in either form. Answers may vary up or down 1 for the third digit, except on integer answers.

- |                             |                 |                            |                   |
|-----------------------------|-----------------|----------------------------|-------------------|
| 1) $1.33 \times 10^4$       | 13,300          | 42) $8.27 \times 10^2$     | 827               |
| 2) $2.64 \times 10^3$       | 2,640           | 43) $2.02 \times 10^7$     | 20,200,000        |
| 3) $7.69 \times 10^5$       | 769,000         | 44) $3.97 \times 10^4$     | 39,700            |
| 4) $2.53 \times 10^5$       | 253,000         | 45) $1.24 \times 10^2$     | 124               |
| 5) $2.93 \times 10^5$       | 293,000         | 46) $-2.57 \times 10^1$    | -25.7             |
| 6) $1.77 \times 10^2$       | 177             | 47) $1.77 \times 10^3$     | 1,770             |
| 7) $3.45 \times 10^4$       | 34,500          | 48)                        | 803 (int. only)   |
| 8) $3.42 \times 10^4$       | 34,200          | 49) $6.92 \times 10^3$     | 6,920             |
| 9) $7.48 \times 10^7$       | 74,800,000      | 50) $2.31 \times 10^3$     | 2,310             |
| 10) $4.88 \times 10^5$      | 488,000         | 51) $1.45 \times 10^{13}$  |                   |
| 11)                         | \$49.45         | 52) $2.63 \times 10^{35}$  |                   |
| 12) $3.89 \times 10^{-1}$   | .389            | 53) $1.47 \times 10^6$     | 1,470,000         |
| 13) $5.45 \times 10^0$      | 5.45            | 54) $1.21 \times 10^6$     | 1,210,000         |
| 14) $6.05 \times 10^{-1}$   | .605            | 55) $7.43 \times 10^3$     | 7,430             |
| 15) $1.72 \times 10^5$      | 172,000         | 56) $9.90 \times 10^2$     | 990               |
| 16) $1.44 \times 10^2$      | 144             | 57) $1.17 \times 10^4$     | 11,700            |
| 17) $9.93 \times 10^2$      | 993             | 58) $7.73 \times 10^0$     | 7.73              |
| 18) $1.24 \times 10^6$      | 1,240,000       | 59) $4.45 \times 10^1$     | 44.5              |
| 19) $4.55 \times 10^2$      | 455             | 60) $4.68 \times 10^0$     | 4.68              |
| 20) $3.83 \times 10^6$      | 3,830,000       | 61) $4.40 \times 10^2$     | 440               |
| 21) $2.74 \times 10^3$      | 2,740           | 62) $4.71 \times 10^1$     | 47.1              |
| 22) $6.18 \times 10^4$      | 61,800          | 63) $4.27 \times 10^{69}$  |                   |
| 23) $-2.25 \times 10^2$     | -225            | 64) $4.07 \times 10^0$     | 4.07              |
| 24) $2.67 \times 10^{-1}$   | .267            | 65) $2.08 \times 10^4$     | 20,800            |
| 25) $3.38 \times 10^3$      | 3,380           | 66) $3.14 \times 10^0$     | 3.14              |
| 26)                         | 21 (int. only)  | 67) $4.44 \times 10^4$     | 44,400            |
| 27) $3.10 \times 10^1$      | 31.0            | 68) $1.29 \times 10^0$     | 1.29              |
| 28) $5.83 \times 10^2$      | 583             | 69) $1.16 \times 10^{17}$  |                   |
| 29) $2.35 \times 10^3$      | 2,350           | 70) $2.02 \times 10^3$     | 2,020             |
| 30) $6.86 \times 10^1$      | 68.6            | 71) $1.25 \times 10^{-1}$  | .125              |
| 31) $3.49 \times 10^3$      | 3,490           | 72)                        | 1,199 (int. only) |
| 32) $5.01 \times 10^5$      | 501,000         | 73) $1.38 \times 10^2$     | 138               |
| 33) $9.00 \times 10^3$      | 9,000           | 74) $3.92 \times 10^2$     | 392               |
| 34) $3.75 \times 10^4$      | 37,500          | 75) $4.99 \times 10^0$     | 4.99              |
| 35)                         | 310 (int. only) | 76) $4.99 \times 10^0$     | 4.99              |
| 36) $2.70 \times 10^{5832}$ |                 | 77) $1.36 \times 10^{26}$  |                   |
| 37) $5.34 \times 10^3$      | 5,340           | 78) $8.82 \times 10^2$     | 882               |
| 38) $2.35 \times 10^1$      | 23.5            | 79) $2.03 \times 10^{771}$ |                   |
| 39) $3.22 \times 10^6$      | 3,220,000       | 80) $9.27 \times 10^2$     | 927               |
| 40) $-1.84 \times 10^1$     | -18.4           |                            |                   |
| 41) $3.16 \times 10^3$      | 3,160           |                            |                   |