Name:		 	
School:		 	
Grade: 4 th	5 th		



Elementary General Math #2 2014-2015

General Directions

This test will last for 40 minutes. There are 50 problems on the test.

Write all answers on your answer sheet.

Always use capital letters on your answer sheet.

You may write on the test and show work on the test. You are not required to show any of your work or calculations.

You may skip around on the test. All problems have only one correct answer.

Calculators may NOT be used on this test.

Scoring: All problems correctly answered are worth 5 points. Two points will be subtracted for all problems answered incorrectly. No points are subtracted for problems that are skipped.

Tiebreakers: (1) Percent accuracy (2) First problem missed (not counting skips).

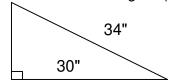
Elementary Math Test #2

General Math Test - 4th and 5th Grade

Choose the letter of the correct answer. You may skip around on this test.

1.	Ella subtracted	86 from 324.	What was he	er result?	
	A. –232	B. 410	C. 238	D. 234	E. 248
2.	2. Katelyn was born on September 18, 2008. Her older sister, Hailey, has a birthday on June 10th. At Hailey's birthday party, Katelyn calculated the number of days until her next birthday. She shared this number with her mom. What was the number of days until Katelyn would have her next birthday?				
	A. 100	B. 101	C. 99	D. 98	E. 102
3.	In triangle ABC 17°. What is the			53°. The me	asure of angle C is
	A. 291°	B. 110°	C. 111°	D. 91°	E. 180°
4. Simplify: 65 + 45 + 12					
	A. 122	B. 112	C. 132	D. 123	E. 121
5.	What is the smallest composite number from these choices?				
	A. 27	B. 2	C. 12	D. 7	E. 14
6.	What is the su	m of 22 and 1	18?		
	A. 4	B. 40	C. 30	D. 396	E. 42
7.	7. A polygon with 9 sides is called a(an):				
	A. hexagon	B. nonagon	C. octagon	D. nineagon	E. dodecagon
8.	. Katelyn went to the store and bought 4 necklaces for \$4.35 each. How much did she pay in sales tax if the tax rate was 7.5%?				
	A. \$18.31	B. \$1.29	C. \$1.31	D. \$13.05	E. \$1.51

9. What is the area of this triangle? (to the nearest integer)



- A. 210 in²
- B. 250 in²
- C. 280 in²
- D. 270 in²
- E. 240 in²

10. How many prime numbers are between 23 and 99?

- A. 17
- B. 15
- C. 18
- D. 16
- E. 14

11. Hailey had a collection of scarfs. She had 4 red ones, 4 blue ones, and 7 orange ones. What are the odds that she would blindly pick an orange scarf out of the drawer where she kept the collection?

- A. $\frac{7}{9}$ B. $\frac{7}{15}$ C. $\frac{7}{8}$ D. $\frac{8}{15}$ E. $\frac{8}{7}$

12. Four consecutive integers have a product that is 441 more than 72,999. What is the largest of these integers?

- A. 17
- B. 18
- C. 19
- D. 16
- E. 20

13. What is the sum of 56,567,432 and 35,281,563 and 53,462,987?

- A. 145322982 B. 145211982
- C. 145312982 D. 14531982 E. 145311982

14. What is the value of 4 quarters, 7 dimes, and 17 pennies?

- A. \$1.87
- B. \$1.77
- C. \$4.87
- D. \$1.67
- E. \$1.37

15. What is the sum of the factors of 33,696?

- A. 109422
- B. 103122
- C. 106724
- D. 106722
- E. 106422

16. What is the name of a polygon with 6 sides?

- A. heptagon B. decagon C. hexagon D. dodecagon E. nonagon

17. Which value is the reciprocal of $\frac{8}{23}$?

- A. 8.23
- B. 2.625
- C. 2.75
- D. 2.875
- E. 23.8

18. What is the units digit of 4^{385} ?

B. 6

C. 2

D. 4

E. 8

19. How many paths exist from top corner A to bottom corner B? You may only move to the right or down or diagonally down. A. 15 B. 13 C. 17 D. 16 E. 20



20. Eight students decided to run for office in their school math club. Their names were Ayden, Rylie, Wesley, Hailey, Katelyn, Ella, Ally, and Lindsey. The student who received the most votes would be president, the second most would be vice president, and the one who received the third most votes would be the secretary. How many possibly ways could 3 of the 8 students be elected to these positions?

A. 336

B. 56

C. 366

D. 24

E. 6720

21. How many distinct integral factors does 144 have? (Hint: The factors of 10 are 1, 2, 5, and 10.)

A. 15

B. 8

C. 10

D. 144

E. 2

22. How many subsets does set G have? Set $G = \{H, \Upsilon, \emptyset, \emptyset, V, \$, W, \#\}$.

A. 256

B. 64

C. 128

D. 63

E. 127

23. The sum of seventy and eighty is:

A. 150

B. 15

C. 160

D. 78

E. 5600

24. Trigonometry is based on the geometry of triangles. Three trig ratios are sine, cosine, and tangent. Which fraction below refers to the sine ratio?

C. $\frac{O}{H}$ D. $\frac{O}{A}$

25. What is the product of the median and mode of 4, 19, 4, 26, 74, 36, 34, 8, and 2?

A. 104

B. 66

C. 60

D. 76

E. 92

26. What is the sum of the odd digits of 902,316,903,785?

A. 53

B. 37

C. 39

D. 30

E. 22

27. What is the mean of 6, 36, 14, 36, 74, 36, 72, 36, 4, and 44?

A. 36.2

B. 37

C. 34.2

D. 35

E. 35.8

28. If A \odot B = (A x B) + 2(4B + 3A), then what is the value of 7 \odot 12?

A. 222

B. 212

C. 982

D. 153

E. 210

29. What is the sum of 18 and 87?

A. 105

B. 115

C. 1566

D. 106

E. 116

30.	What is the 12" A. 1728	' number in th B. 491	is pattern: 0, C. 1111	1, 8, 27, 64, 1 D. 1331	25,,,,? E. 2197
31.	How many inte	gers are perfe	ect cubes bet	ween 100 and	d 2000?
	A. 10	B. 9	C. 11	D. 7	E. 8
32.	The greatest co	mmon factor B. 77	of 737 and 20 C. 97	0207 is: D. 31	E. 11
33.	Ayden loves m triangle in his n he decided to a numbers in rov	otebook. Kno	owing that the	top row is ca	lled row zero,
	A. 260	B. 264	C. 272	D. 518	E. 262
34.	How many num	bers betweer	25 and 570	are multiples	of 3?
	A. 182	B. 180	C. 181	D. 190	E. 191
35.	What is the pro	oduct of 13 an	d 17?		
	A. 221	B. 211	C. 191	D. 151	E. 30
36.	752.25 m = A. 752250	B. 7522500		D. 752.25	E. 0.75225
37.	The intersection A. incenter	of the media B. hypotenus	•	ngle is the: hocenter	D. abscissa E. centroid
	What is the tota hexagon?	ıl sum of the c	degrees of all	of the exterio	r angles in one regular
	A. 900	B. 720	C. 180	D. 360	E. 1080
39.	How many disti (Hint: The arran would count as	igement does	not have to s		A are possible? word. ANTANOM
	A. 5,040	B. 2,620	C. 1,260	D. 630	E. 21
40.	103 + 757 =				
	A. 770	B. 860	C. 760	D. 870	E. 880

E. 86

41. Simplify: 486 x 258 + 432 x 912 + 734 x 208 - 896 x 456

A. 262468 B. 261468 C. 263378 D. 263468 E. 272468

42. $(884 \div 4) + (25 \times 76) + (807 - 163) =$

A. 2565 B. 2665 C. 2666 D. 2464 E. 2041

43. The product of the Roman numeral XIV and 64 is:

A. 996 B. 876 C. 906 D. 896 E. 886

44. What is the prime factorization of 3000?

A. 2³ x 3² x 5² B. 2³ x 3 x 5² C. 2³ x 3² x 5 D. 2 x 3³ x 5² E. 2³ x 3 x 5³

45. What is the area in square inches of a rectangle with a width of 17 in. and a length that is eight less than twice the width?

A. 342 B. 442 C. 476 D. 448

46. What is the square root of 4,624?

A. 62

B. 67.2

C. 72

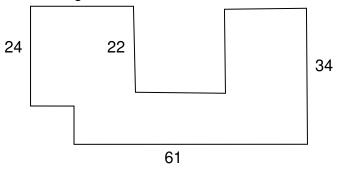
D. 78

E. 68

47. Find the product of 87 and 83.

A. 7,221 B. 6,421 C. 6,221 D. 5,621 E. 5,611

48. Find the perimeter of this figure. The figure represents a rectangle with 2 squares missing.



A. 224 B. 312 C. 244 D. 234 E. 274

49. What is the area of the figure in #48?

A. 880 B. 1590 C. 1490 D. 1830 E. 1930

50. The time 37.2 hours past 1:24 pm would be:

A. 2:44 am B. 1:36 am C. 2:46 am D. 2:36 am E. 2:34 am

KEY for 4th- 5th

1. C	47. A
2. A	48. D
3. B	49. D
4. A	50. D

- 7. B
- 8. C
- 9. E
- 10. D
- 11. C
- 12. B
- 13. E
- 14. A
- 15. D
- 16. C
- 17. D
- 18. D
- 19. D
- 20. A
- 21. A
- 22. C
- 23. A
- 24. C
- 25. D
- 26. B
- 27. E
- 28. A
- 29. A
- 30. D
- 31. E
- 32. E
- 33. B
- 34. C
- 35. A
- 36. A
- 37. E
- 38. D
- 39. C
- 40. B 41. D
- 42. B
- 43. D 44. E
- 45. B
- 46. E