The University of the State of New York

REGENTS COMPETENCY TEST

MATHEMATICS

Tuesday, June 21, 1983 — 9:15 a.m.

The questions on this test measure your computational skills, your knowledge of mathematical concepts, and your ability to solve mathematical problems. Your answers to these questions must be recorded on the separate answer sheet. Use only a black lead pencil on your answer sheet.

When you have completed the test, you must sign the declaration which states that you did not see any of the questions or answers before taking this test and that you have neither given nor received help in answering any of the questions during the test. Your answer sheet cannot be accepted if you fail to sign this declaration.

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO.

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Part A Answer all 20 questions in this part. Write your answers on the lines provided in PART A on the separate answer sheet. Use only a black lead pencil on the answer sheet.		
1 Add: 547 56 <u>+ 371</u>	7 Multiply: $\frac{4}{5} \times \frac{3}{7}$	
2 Write the numeral for thirty thousand two hundred four.	8 Multiply: $6.2 \times .3$	
3 Add: 6.4 + 5.28	9 Divide: 23)1449	
4 Multiply: 716 <u>×25</u>	10 Subtract 2.8 from 10.04.	
5 Subtract: 2007 986	11 Add: -7 and 5	
6 Round 7,927 to the nearest thousand.	12 What is the average (mean) of 92, 81, 87, 83, and 82?	

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 25 Maria bought 3 bottles of soda at \$.35 per bottle and 3 slices of pizza at \$.40 per slice. What was the total amount of her bill? (a) \$.75 (c) \$2.25 (b) \$2.20 (d) \$4.50 	 29 Valerie spent \$18.85 for a blouse. If she gave the sales clerk \$20, what change should she have received? (a) \$1.15 (c) \$2.15 (b) \$1.85 (d) \$2.85 	
26 An airplane took off at 10:15 a.m. and landed 3 hours and 10 minutes later. What time did the airplane land?	30 The factors of 34 are 1, 2, 17, and 34. The factors of 51 are 1, 3, 17, and 51. What is the greatest common factor of 34 and 51?	
 (a) 1:25 p.m. (b) 2:25 p.m. (c) 3:25 p.m. (d) 7:05 p.m. 	(a) 1 (c) 34 (b) 17 (d) 51	
	Å	
27 Written as a decimal, 76% is equal to	31 What is the value of 52?	
(a) 0.0076 (c) 0.76 (b) 0.076 (d) 7.6	(a) 7 (c) 25 ' (b) 10 (d) 52	
28 Which is equal to $2\frac{4}{5}$?	 32 The cost for a classified ad in a newspaper is as follows: \$1.10 for the first 10 words \$.30 for each additional word 	
(a) $\frac{1}{4}$ (c) $\frac{1}{5}$	What is the total cost for a classified ad of 16 words?	
(b) $\frac{11}{5}$ (d) $\frac{14}{5}$	(a) \$1.40(c) \$5.80(b) \$2.90(d) \$6.90	

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 46 In a basketball game, Wendy made 6 of the 10 shots she attempted. What percent of the shots she attempted did she make? (a) 60% (c) 6% (b) 40% (d) 4% 	 51 The lengths of the sides of a, triangle are 6 centimeters, 9 centimeters, and 13 centimeters. What is the perimeter of the triangle? (a) 14 cm (c) 28 cm (b) 27 cm (d) 54 cm
 47 If the diameter of the planet Mars is about 4,000 miles, what is its radius? (a) 2,000 miles (b) 8,000 miles (c) 12,560 miles (d) 16,000 miles 	52 How many kilograms are equal to 3,200 grams? (a) 3.2 (c) 3,200 (b) 32 (d) 32,000
 48 A chair is regularly priced at \$400. If it is on sale for 30% off, what is the sale price of the chair? (a) \$1,600 (c) \$370 (b) \$520 (d) \$280 	53 Add: $\frac{2}{3} + \frac{1}{2}$ (a) $\frac{2}{5}$ (c) $\frac{3}{6}$ (b) $\frac{3}{5}$ (d) $\frac{7}{6}$
 49 What is the median of the following scores? 42, 42, 50, 75, 86 (a) 42 (c) 59 (b) 50 (d) 86 	54 In triangle ABC below, what is the sum of the measures of angle A + angle B + angle C ?
 50 In a class, there are 17 girls and 13 boys. What is the ratio of the number of girls to the total number of pupils in the class? (a) 13:17 (c) 17:13 (b) 13:30 (d) 17:30 	A B (a) 360° (c) 90° (b) 180° (d) 45°

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59 The chart below shows the number and cost of certain items needed for a project.

What is the total cost of the project?

Number Needed	Cost per Item
1	\$1.50
2	\$1.00
1	\$4.00
	Number Needed 1 2 1

(a)	\$6.50	(c) \$13.00
(b)	\$7.50	(d) \$15.00

60 In the right triangle below, which statement must be true?



(a) $c^2 = 6^2 + 8^2$ (b) $c = \frac{1}{2} (6 \times 8)$ (c) $6^2 = c^2 + 8^2$ (d) $8^2 = c^2 + 6^2$

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