



PRIMARY 4 (GRADE 4) MOCK TEST PAPER SET 1

NAME: _____

Index Number:

SCHOOL: _____

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INSTRUCTIONS:

1. Please **DO NOT OPEN** the contest booklet until the Proctor has given permission to start
2. TIME: **1 hour 30 minutes**.
3. There are 25 questions with 100 total points:

Section A: Questions 1 to 15 score 3 points each, no points are deducted for an unanswered or wrong answer.

Section B: Questions 16 to 20 score 5 points each, no points are deducted for an unanswered or wrong answer.

Section C: Questions 21 to 25 score 6 points each, no points are deducted for an unanswered or wrong answer.

4. Shade your answers neatly using a **2B lead pencil** in the Answer Entry Sheet.
5. PROCTORING: No one may help any student in any way during the contest.
6. No electronic devices capable of storing and displaying visual information are allowed during the course of the exam. Strictly **No Calculators** are allowed.
7. All students must fill and shade their **Name, School and Index Number** in the Answer Entry Sheet and Contest booklet.
8. MINIMUM TIME: Students must stay in the exam hall for at least 1 hour.
9. A student must show detailed working and transfer answers to the Answer Entry Sheet.
10. **No exam papers and written notes can be taken out by any contestant.**



SIU SOUTHERN ILLINOIS UNIVERSITY
CARBONDALE STEM EDUCATION
RESEARCH CENTER

ROUGH WORKING

Section A: 15 Multiple Choice Questions
3 Points Each

Question 1

Four kids can paint four balls in four minutes. If everyone works at the same speed, how many kids can paint 12 balls in 12 minutes?

- A. 4
- B. 6
- C. 8
- D. 10
- E. 12

Question 2

Find the value of

$$25 \times 48 + 32 \times 25 + 25 \times 20$$

- A. 1250
- B. 25000
- C. 2500
- D. 2525
- E. 2505

Question 3

How many natural numbers from 1 to 100 are not divisible by 5 or 7?

- A. 68
- B. 66
- C. 76
- D. 78
- E. 80

Question 4

The following 3×3 grid is filled with numbers from 1 to 9. The numbers in all sides add up to 15 horizontally and vertically. Find the value of *.

	9	
	2	*
		3

- A. 4
- B. 5
- C. 6
- D. 7
- E. 8

Question 5

$$\begin{array}{r} 8 \\ \times 8 \\ \hline B C \end{array}$$

Find the sum of $A + B + C$ if different letters stand for different digits.

- A. 15
- B. 12
- C. 10
- D. 8
- E. 7

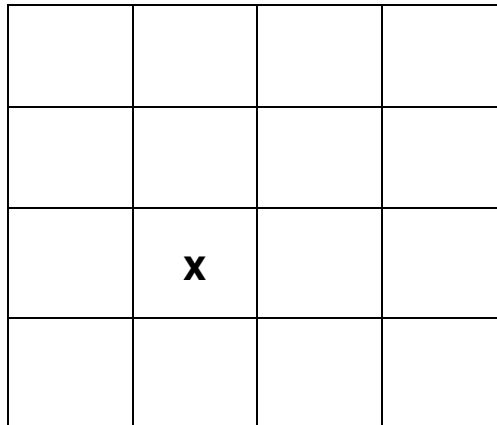
Question 6

What is the largest 3-digit number which is divisible by 24?

- A. 999
- B. 996
- C. 992
- D. 984
- E. 968

Question 7

The following picture shows a 4×4 square. How many squares of any sizes are there comprised of the one marked with **X**?



- A. 1
- B. 4
- C. 5
- D. 10
- E. 16

Question 8

$$\begin{array}{r} A \quad 5 \quad B \\ - \quad \quad C \quad 9 \\ \hline 2 \quad 9 \quad 9 \end{array}$$

Find the value of $A5B + C9$.

- A. 400
- B. 417
- C. 444
- D. 527
- E. 544

Question 9

Sarah and Rose have few pencils. Two-fifths of Sarah's pencils and eight-ninths of Rose's pencils are both 40 each. Who has more pencils and by how much?

- A. Sarah, 40
- B. Rose, 40
- C. Sarah, 50
- D. Rose, 50
- E. Sarah, 55

Question 10

There are 5 green, 9 orange, 6 red, and 4 blue candies in the bag. At least how many candies must Sam take to ensure he gets the first red candy?

- A. 19
- B. 4
- C. 10
- D. 3
- E. 15

Question 11

The following $4 \times 4 \times 4$ cube is painted red on all its faces. Find the number of smaller cubes with at most two faces painted.



- A. 8
- B. 16
- C. 24
- D. 36
- E. 56

Question 12

The combined age of Ram and Shyam five years from now will be 37. Ram was twice as old as Shyam 3 years ago. How old is Ram now?

- A. 7
- B. 10
- C. 14
- D. 17
- E. 20

Question 13

Two regular 6-sided dice were thrown on the ground. All the numbers visible on the dice were added. The sum of numbers on all the visible faces was 31. What is the difference between the numbers facing the ground?

- A. 0
- B. 1
- C. 2
- D. 3
- E. 4

Question 14

Ron and Vanda each thought of a two-digit number. The product of their digits was 24 and 35 respectively. The difference between their numbers was 37. What is the sum of their numbers?

- A. 95
- B. 100
- C. 113
- D. 121
- E. 139

Question 15

Ann read a book with 1000 pages. How many digits were used to print the page numbers on the book?

- A. 3000
- B. 2550
- C. 2987
- D. 3193
- E. 2893

Section B: 5 Open-Ended Questions

5 points each

Question 16

Sam filled up some boxes with sweets. If he put 5 sweets in each box, he was left with 4 extra sweets. If he put 6 sweets in each box, the last box would have only 2 sweets. Find the number of sweets Sam had.

Question 17

When the product of 9 and a number is divided by 4 and then multiplied by 25, the result is 19800. Find the number.

Question 18

What is the largest possible value of ' m ' in $653m2$ such that it is divisible by 3?

Question 19

A five-digit number is formed such that it satisfies the following conditions:

- It is a multiple of 3 and 5.
- The third digit is half of the first digit and one less than the second digit.
- The sum of the first three digits is 13 and the sum of the last three digits is 8.
- The fourth digit is the second-largest digit of that number.

Find the sum of digits of that number.

Question 20

Find the sum of the numbers in the 12th group of the following sequence:

$$(1, 4, 6), (2, 6, 10), (3, 8, 14), \dots$$

Section C: 5 Open-Ended Questions

6 points each

Question 21

16 trees are planted on one side of the road. Two cars are parked between every two trees. How many cars are there?

Question 22

Ten small ropes of the same length were knotted together to form a big rope of 81 cm. If the knotted area was 1 cm for every rope, how long was each rope?

Question 23

Find the value of the digit at the ones place of the following expression:

$$99 \times 101 \times 103 \times 105 \times 107 - 100 \times 102 \times 104 \times 106 \times 108$$

Question 24

Among Jack, Jade and James, one of them is a painter, the other is a lawyer and the third is a firefighter. Jack is older than the firefighter while the lawyer is younger than James. Also, Jade and lawyer are not the same age. Find who the firefighter is.

(Put Jack=1, Jade=2 and James=3 in your answer)

Question 25

Patrick scored 82 and 85 marks respectively in English and Science. If the total marks of these papers are 100, how many marks should he score in Mathematics so that his average marks in these three subjects becomes 87?