Mathletics Grade 4

Instructions:

- Do **<u>NOT</u>** turn this page until instructed to do so.
- WRITE YOUR <u>TEAM NUMBER</u> AND <u>SCHOOL NAME</u> ON THE LINE PROVIDED ON THE FRONT OF EACH SHEET EACH TIME YOU BEGIN A NEW PROBLEM.
- You will want to use a <u>calculator</u> on this test, but NO cell phones calculators can be used!
- <u>Blank scratch paper can be used</u>. Please do <u>NOT</u> write on the team number card, as they are reused each year.
- You may **not** use rulers, protractors or other measurement devices on this test.

Problems # 1-3

This is a relay problem.

Team Number: _____ School: _____

Students: _____

Problems 1-3 (3 minutes, 3 points)

1. What is the **product** of 37 and 7?

Answer: _____

Ally saved \$ ______ of her allowance. (Answer to #1)
She wants to buy a new IPad which costs \$339. If she gets \$2 a day allowance for chores and she saves it all, in how many days will Ally have enough money to buy the IPod?

Answer: _____

 3. Alan has ______ fish in his aquarium. (Answer to #2) He needs to buy fish food and each fish eats 3 grams of food a day. How many grams of fish food does he need for one week?

Answer: _____

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Problem # 4

Do NOT turn the page until you are told to do so.

Problem 4 (2 points, 2 minutes)

This shape with identical cubes was **dipped into paint covering all sides.** How many cubes were <u>not</u> painted at all?



ANSWER: _____

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Problem # 5

Do NOT turn the page until you are told to do so.

Problem 5 (2 points, 2 minutes)

If one Earth year (365 days) is equal to 13 Planet Zumba years.

How many Earth years would be in 208 Zumba years?

ANSWER: _____

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Problem # 6

Do NOT turn the page until you are told to do so.

The **roller coaster** at Atlantic Entertainment Park gives rides to 28 people every three minutes. The **Ferris Wheel** gives rides to 13 people every two minutes. **In one hour, how many more people can ride the roller coaster than the Ferris Wheel?**

ANSWER: _____

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Problem # 7

Do NOT turn the page until you are told to do so.

Problem 7 (2 minutes, 2 points)

In this 16 dot formation, **how many squares can you form** by connecting the dots using only vertical and horizontal lines?



ANSWER: _____

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Problem # 8

Do NOT turn the page until you are told to do so.

Problem 8 (3 points, 3 minutes)

Figure out which lunch belongs to which person by following these clues:

- 1. Naveen doesn't like fruit and veggies!
- 2. Jillian does not like potato salad and tuna.
- 3. Allen's favorite lunch does not include pizza or beans.
- 4. Rob has a vegetable and fish allergy.
- 5. Ray likes to dig up her favorite snack!
- 6. Naveen prefers thin crust.

	Potato Salad	Pizza	Mixed Fruit	Tuna	Green Bean Casserole
Naveen					
Jillian					
Allen					
Rob					
Ray					

ANSWERS:

Naveen	
lillian	_
Allen	_
Rob	
Ray	

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Problem # 9

Do NOT turn the page until you are told to do so.

Problem 9 (3 points, 3 minutes)

The area of the square is 16 square inches. What is the area of the shaded part?



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Problem # 10

Do NOT turn the page until you are told to do so.

Problem 10 (2 points, 2 minutes)

What number goes in the **<u>start box</u>** in the flowchart?



ANSWER: _____



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Problem # 11

Do NOT turn the page until you are told to do so.

 Team Number:
 School:

Problem 11 (2 points, 2 minutes)

Two years from now I will be 2 times as old as I was 2 years ago. **How old am I now?**

ANSWER: _____

TEAM #: ______School Name______

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Problem # 12

Do NOT turn the page until you are told to do so.

Problem 12 (1 point, 1 minute)

John removed ¼ of the spoons from a drawer for an experiment. Then he removed 10 spoons from the drawer for dinner. What was the total number of spoons John <u>removed</u> from the drawer, if there were originally 60 spoons in the drawer?

ANSWER: _____

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Problem # 13

Do NOT turn the page until you are told to do so.

Write numbers in the shapes to make the equations true.

- Same shapes must have the same values.
- Different shapes must have different values.
- The number at the end of each row and each column is the sum.

What is the value of X?



=

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Problem # 14

Do NOT turn the page until you are told to do so.

Find the rule for this input-output table. Once you find the rule, find the value for B.

Input	Output
3	13
8	28
0	4
4	16
7	25
В	10

ANSWER: B = _____

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Problem # 15

Do NOT turn the page until you are told to do so.

Problem 15 (3 points, 3 minutes)

Fred is going camping with some friends and will need some supplies. Fred needs: 2 dozen bottles of water, 3.5 gallons of juice, 3 tents, 25 packets of fruit snacks, 2 compasses, 10 pairs of socks, 7 packages of cut wood, 7 packages of marshmallows and 2 cans of lighter fluid. How much will Fred's supplies cost?

Water	\$1.87 per bottle
Juice	\$1.12 per half gallon
Tent	\$124 per tent
Fruit Snack	\$6 per 5 packets
Compass	\$17.53 each
Matches	\$3.25 per box
Socks	\$4.43 per 2 pairs
Wood	\$12.39 per package
Bug Repellent	\$3.29 per bottle
Marshmallows	\$2.35 per package
Band-Aids	\$1.27 per box
Lighter Fluid	\$7.63 per can

ANSWER: _____

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Problem # 16

Do NOT turn the page until you are told to do so.

Problem 16 (1 point, 1 minute)

What is the sum of the numbers 1 through 50?

ANSWER: _____

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Grade 4 Mathletics - Answer Key

PTS.	#	Solution
1	1	\$259
1	2	40 days
1	3	840 grams
2	4	1 cube
2	5	16 yrs.
2	6	170 people
2	7	14 squares
3	8	Naveen- pizza Jillian – green bean casserole Allen - tuna Rob – mixed fruit Ray – potato salad
3	9	5 sq. inches
2	10	287
2	11	6 yrs.
1	12	25
3	13	x = 5
2	14	B = 2
3	15	\$630.37
1	16	1275