



# America's School of Heroes

## Middle School 137

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## Middle School 137's Math Summer Packet



Dear Students, Parents and Guardians,

Thank you for another successful year here at Middle School 137! In efforts to better prepare you for the 7<sup>th</sup> grade, we have attached your assignment for Math, which must be completed over the summer break.

Your work must be shown and if you need additional space, please use the work space on the right side of the packet.

This completed packet must be brought with you on the first day of school. The full packet is also available on our school website <https://www.ms137.org/> for you to print out. Your new Math and ELA teacher will be collecting and grading your work.

We wish you a very exciting summer and look forward to your return to MS 137 on Thursday, September 4th!

Sincerely,

Ms. Reilly, A.P.

*Student Name:* \_\_\_\_\_

*Class:* \_\_\_\_\_

*Parent/Guardian Signature:* \_\_\_\_\_

NY-6.EE.1

1. What is the value of the expression

$$\frac{3^2 \cdot (2^3 + 4)}{2^2}?$$

A: 10      B: 15      C: 19      D: 27

NY-6.RP.3.d

2. Carly has 6 teaspoons of salt. The ratio of teaspoons to tablespoons is 3 : 1. How many tablespoons of salt does Carly have?

A:  $\frac{1}{18}$       B:  $\frac{1}{2}$       C: 2      D: 18

NY-6.NS.1

3. Gustavo purchased  $9\frac{1}{2}$  pints of ice cream for a party. If each guest will be served exactly  $\frac{1}{3}$  pint of ice cream, what is the greatest number of guests that Gustavo can serve?

A: 5      B: 9      C: 15      D: 16

NY-6.EE.1

4. A restaurant used 231 eggs last week. Of these, 46 were brown in color. The remaining eggs were white in color. Which equation can be used to solve for  $w$ , the number of white eggs used last week?

A:  $231 + 46w = 0$       B:  $46 + w = 231$   
C:  $w = 231 + 46$       D:  $231 = 46w$

**Work Space**

NY-6.RP.A.3d

5. A bakery made 9 cakes using 3 bags of flour. The bakery uses the same relationship between cakes made and the amount of flour used to make all of their cakes. Which table of values shows the relationship between the number of cakes the bakery makes to the number of bags of flour the bakery uses?

A

Cakes	1	2	3	4	5
Bags of Flour	3	6	9	12	15

C

Cakes	7	8	9	10	11
Bags of Flour	1	2	3	4	5

B

Cakes	3	6	9	12	15
Bags of Flour	1	2	3	4	5

D

Cakes	1	2	3	4	5
Bags of Flour	7	8	9	10	11

NY-6.EE.3

6. Which expression is equivalent to  $9(9m + 3t)$ ?

- A:  $18m + 3t$       B:  $81m + 3t$   
C:  $18m + 12t$       D:  $81m + 27t$

NY-6.EE.3

7. An ice cream shop sold 48 vanilla milkshakes in a day, which was 40% of the total number of milkshakes sold that day. What was the total number of milkshakes that the ice cream shop sold that day?

- A: 60      B: 72      C: 100      D: 120

NY-6.RP.3.c

8. Aria has a coin collection. She keeps 7 of the coins in a box, which is only 5% of her entire collection. What is the total number of coins in Aria's coin collection?

- A: 12      B: 14      C: 120      D: 140

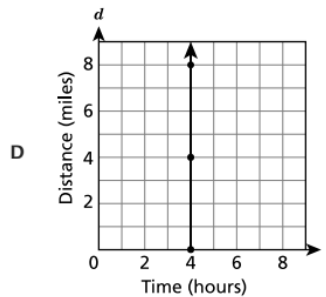
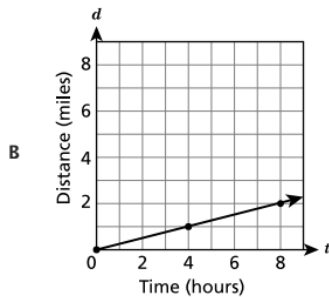
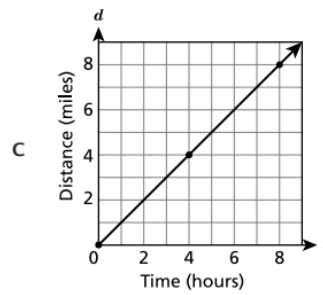
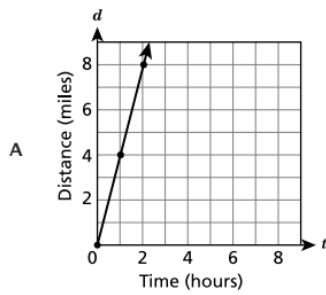
Work Space

NY-6.EE.9

9. Mikael walks on a treadmill at a constant rate. The equation below describes the relationship between  $t$ , the time he walks in hours, and  $d$ , the distance he walks in miles.

$$d = 4t$$

Which graph represents the relationship between the amount of time Mikael walks and the distance he walks?



NY-6.SP.1

10. Patricia wants to know more about the sports her friends play. Which of her questions below is NOT a statistical question?

- A: How many sports do each of my friends play in one month?
- B: If I make a list of types of sports, how many of my friends like each type?
- C: How many sports do each of my friends play?
- D: What is my best friend's favorite sport?

Work Space

**Work Space**

NY-6.RP.2.a

**Short Response: Show all work**

11. Max earns \$140.00 by selling 56 hot dogs at the concession stand at school. Using the same rate for the cost of one hot dog, how many more hot dogs would Max need to sell to earn a total of \$175.00?

NY-6.EE.6

**Extended Response: Show all work**

12. A rectangular exercise mat has a perimeter of 36 feet. The length of the mat is twice the width. Write and solve an equation to determine the length, in feet, of the mat. Then find the area, in square feet, of the mat.

Answer: Length \_\_\_\_\_ feet

Area \_\_\_\_\_ square feet