



Mathletes Challenge

2026

Sudden Death - Test 2

Unleash your problem-solving power!

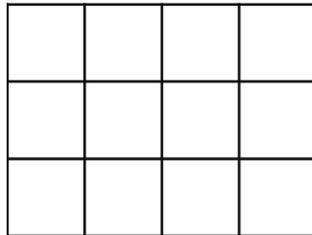
Question 1

Which number is a multiple of 8 and has a factor of 3 ?

- A** 16
 - B** 18
 - C** 32
 - D** 48
-

Question 2

The model shown below represents one whole and is divided into twelve equal parts.



How many of the twelve equal parts in the model should be shaded to represent a fraction equivalent to $\frac{3}{4}$ of the whole?

- A** 3
- B** 6
- C** 9
- D** 12

Question 3

Four quadrilaterals are shown below.

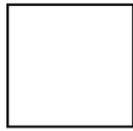


Figure A

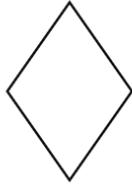


Figure B



Figure C



Figure D

Which two quadrilaterals appear to be rectangles?

- A Figure B and Figure D
- B Figure A and Figure C
- C Figure B and Figure C
- D Figure A and Figure D

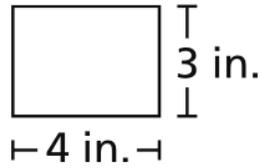
Question 4

What is the value of the expression 87×36 ?

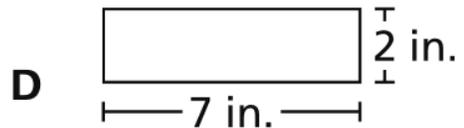
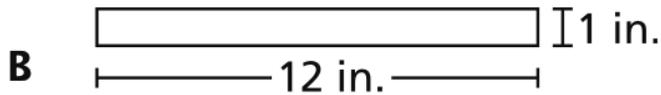
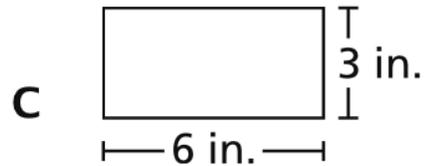
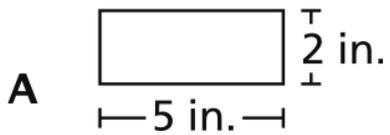
- A 522
- B 783
- C 2,932
- D 3,132

Question 5

A rectangle is shown below.



Which of these shapes has the same area as the rectangle but a different perimeter?



Question 6

What is the value of $570 \div 6$?

- A** 93
- B** 94
- C** 95
- D** 96

Question 7

The number of third-grade students and fourth-grade students at two different schools is listed below.

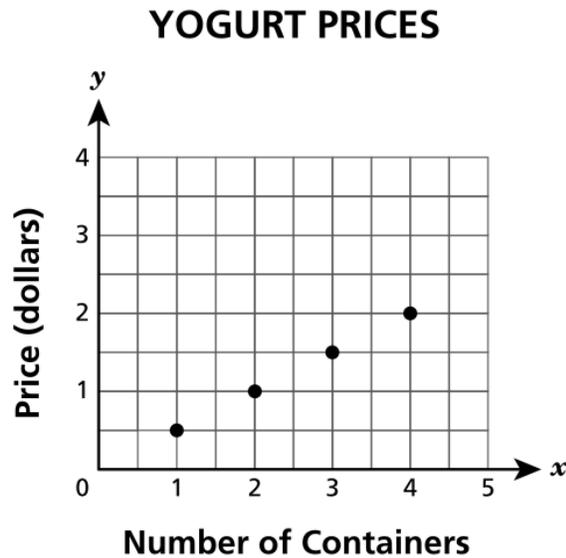
- School G has 126 third-grade students.
- School H has 2 times as many third-grade students as School G.
- School G has 174 fourth-grade students.
- School H has 3 times as many fourth-grade students as School G.

How many more third-grade and fourth-grade students are at School H than at School G ?

- A** 254
 - B** 474
 - C** 554
 - D** 774
-

Question 8

The graph below shows the prices for a number of containers of a type of yogurt.

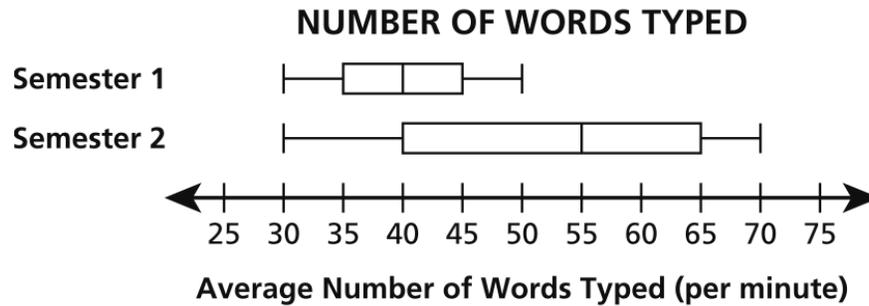


Which statement describes the unit price per container of yogurt?

- A** The unit price is \$0.50.
- B** The unit price is \$1.00.
- C** The unit price is \$1.50.
- D** The unit price is \$2.00.

Question 9

Students in a class are recording the number of words they can type per minute each semester during the school year. The box plots below show the results for two semesters.



What is the difference in the median number of words typed per minute from Semester 1 to Semester 2 ?

- A 5
 - B 10
 - C 15
 - D 20
-

Question 10

Jacob bought a phone for x dollars. One year later, the value of the phone decreased by 20%. Which expression represents the value of the phone after the decrease?

- A $0.2x$
 - B $0.8x$
 - C $x - 0.2$
 - D $x - 0.8$
-

Question 11

The temperature at 8:00 a.m. was -7°F . At 3:00 p.m., the temperature had risen to 8°F . What was the change in temperature, in degrees Fahrenheit, from 8:00 a.m. to 3:00 p.m.?

- A -15
 - B -1
 - C 1
 - D 15
-

Question 12

Audrey is planning a party for 30 people. She wants to buy enough juice for each person to have exactly 2 servings of juice.

- Each bottle of juice has 5 servings.
- Each bottle of juice costs \$4.89.

What is the total amount it will cost Audrey to buy the bottles of juice to serve her guests and have no juice left over?

- A \$29.34
 - B \$48.90
 - C \$58.68
 - D \$73.35
-

**END
OF
TEST**

ANSWER KEY - Sudden Death 2

1. D	11. D
2. C	12. C
3. B	
4. D	
5. B	
6. C	
7. B	
8. A	
9. C	
10. B	