2025 Mathletes Challenge - Sudden Death - Test 1

1.

A group of numbers is shown.

4.76 4.8 4.753 4.801

The numbers will be listed from least to greatest. Which number should be listed third?

Ⓐ 4.76

Ⓑ 4.8

Ⓒ 4.753

Ⓓ 4.801

2.

Jeremy has a string that is 84 inches long. He cuts 4 pieces from the string that are each 18 inches long.

Which equation can be used to find z, the length of the leftover string in inches?

Ⓐ $84 = (18 \times 4) - z$

Ⓑ $84 = (18 + 4) \times z$

Ⓒ $84 = (18 \times 4) + z$

Ⓓ $84 = (18 \times 4) \div z$

3.

An expression is shown.

$$6\left[2+\left(1.7\times 2.3\right)\right]+39$$

Which expression is equivalent?

Ⓐ $6\left[2+3.91\right]+39$

Ⓑ $12+\left(1.7\times 2.3\right)+39$

Ⓒ $6\left[2+1.7\right]\times 41.3$

Ⓓ $6\left[3.7\times 2.3\right]+39$

4.

A farmer has 1,850 broccoli seeds that he will plant in rows. He will plant exactly 40 seeds in each row.

What is the greatest number of complete rows of broccoli seeds the farmer can plant?

Ⓐ 47

Ⓑ 40

Ⓒ 41

Ⓓ 46

5.

Miri has 3 pies. Each pie is cut into equal slices. Each slice is $\frac{1}{6}$ of a pie.

How many slices of pie does Miri have?

Ⓐ 18

Ⓑ $\frac{3}{6}$

Ⓒ $\frac{3}{18}$

Ⓓ 9

6.

Laila feeds her dog a total of 97.5 ounces of dog food over a period of 30 days. She feeds her dog the same amount of food every day.

How many ounces does Laila feed her dog each day?

Ⓐ 3.2 oz

Ⓑ 3.25 oz

Ⓒ 32.5 oz

Ⓓ 3.03 oz

7.

An expression is shown.

$$\frac{1}{12} + \frac{1}{5} + \frac{3}{10}$$

What is the value of the expression?

(A) $\frac{5}{27}$

(B) $\frac{5}{12}$

(C) $\frac{5}{5}$

(D) $\frac{35}{60}$

8.

The perimeter of a rectangular tablecloth is 320 inches. The width of the tablecloth is 70 inches.

What is the length of the tablecloth in inches?

Ⓐ 250 in.

Ⓑ 180 in.

Ⓒ 90 in.

Ⓓ 125 in.

9.

What is the value of 1.5×1.12 ?

Ⓐ 1.68

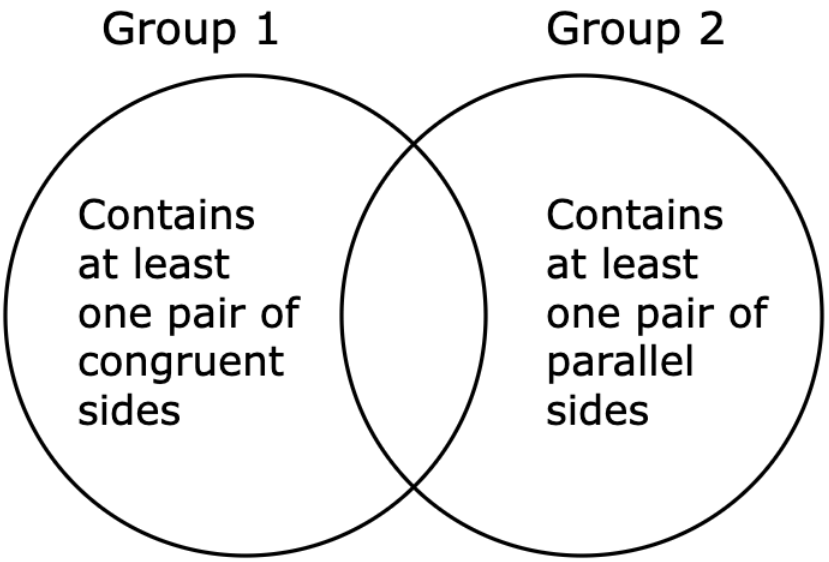
Ⓑ 1.06

Ⓒ 10.6

Ⓓ 16.8

10.

This Venn diagram can be used to classify polygons.



Which shape belongs in Group 1 but **NOT** in Group 2?

Ⓐ Square

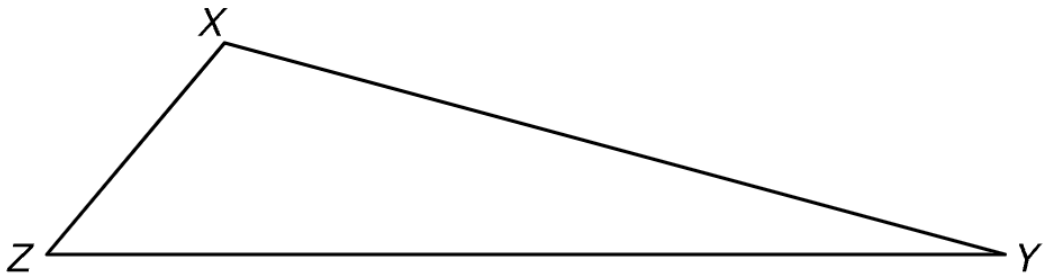
Ⓑ Isosceles triangle

Ⓒ Trapezoid

Ⓓ Scalene triangle

11.

George is given triangle *XYZ* to classify.



In which column should George classify triangle *XYZ*?

Ⓐ Acute

Ⓑ Equiangular

Ⓒ Obtuse

Ⓓ Right

12.

What is the value of the expression shown?

$2 \times [\, 30 - 20 \div (5 \times 2)\,]$

Ⓐ 8

Ⓑ 16

Ⓒ 44

Ⓓ 56

END OF SUDDEN DEATH - TEST 1