Q&A!

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A. H=3
B. H=4
C. H=5
D. H=6

Answer: A

QUESTION: 66
An electronics store sells E Evercell brand batteries in packages of 4 and D Durapower brand batteries in packages of 6. Which expression represents the total number of batteries in the store?

A. (4+E)x(6+D)
B. (4xE)+(6xD)
C. (4+E)+(6+D)
D. (4xE)÷(6xD)

Answer: B

QUESTION: 67
The table below shows changes in the area of several trapezoids as the lengths of the bases, b1 and b2, remain the same and the height, h, changes.

Trapezoids

b_1 (in feet)	b_2 (in feet)	h (in feet)	A (in square feet)
5	7	2	12
5	7	4	24
5	7	6	36
5	7	8	48

Which formula best represents the relationship between A, the areas of these trapezoids, and h, their heights?

A. A=5h
B. A=6h
C. A=7h
D. A=12h

QUESTION: 68
This table shows lengths, widths, and areas of four rectangles. In each rectangle, the length remains 40 meters, but the width changes.

Rectangles

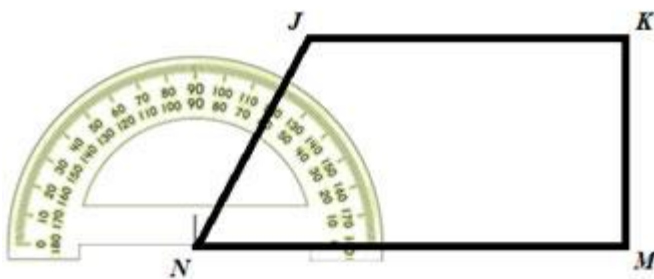| Length	40 meters	40 meters	40 meters	40 meters
Width	20 meters	30 meters	40 meters	50 meters
Perimeter	120 meters	140 meters	160 meters	180 meters

Which formula best represents the relationship between P, the perimeters of these rectangles, and w, their widths?

A. P=w+80
B. P=2w+80
C. P=2(2w+40)
D. P=10(w+40)

QUESTION: 69
The drawing shows a protractor and a trapezoid.

Which is closest to the measure of ?JNM?

A. 61°
B. 79°
C. 119°
D. 121°

QUESTION: 70

Stephen researched the topic of solar-powered lights for his science project. He exposed 10 new solar lights to five hours of sunlight. He recorded the number of minutes each light continued to shine after dark in the list below.

63, 67, 73, 75, 80, 91, 63, 72, 79, 87

Which of these numbers is the mean of the number of minutes in Stephen's list?

A. 28
B. 63
C. 74
D. 75

QUESTION: 71

The number 123 is the 11th term in a sequence with a constant rate of change. Which of the following sequences has this number as its 11th term?

A. 5, 17, 29, 41, ...
B. 3, 15, 27, 39, ...
C. -1,11,23,35,...
D. 1, 13, 25, 37, ...

QUESTION: 72

Which of the following equations have infinitely many solutions?

A. 3(2x-5)=6x-15
B. 4x-8=12
C. 5=10x-15
D. 7x=2x+35

QUESTION: 73

John was given the following equation and asked to solve for x. 2/3 x-1=5. His solution is shown below. Circle the step where he made a mistake and then choose the answer choice that fixes it.

$$\frac{2}{3}x - 1 = 5$$

$$\frac{2}{3}x = 4$$

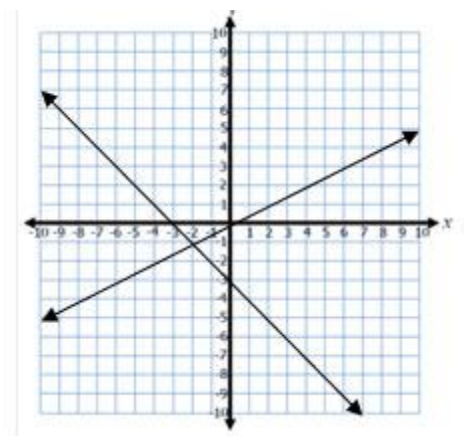$$x = \frac{4}{\left(\frac{2}{3}\right)}$$

$$x = 6$$

A. 2/3 x=8
B. 2/3 x=6
C. x=8
D. x=2/((2/3))

QUESTION: 74

Which point represents the solution to the system of linear equations graphed below?

A. (0,0)
B. (0,-3)
C. (-2,-1)
D. (-3,0)

Answer: C

Solve the system of linear equations.

$$\begin{cases} 3x - 2y = -10 \\ \quad y = 2x + 5 \end{cases}$$

A. (0,5)
B. (-2,1)
C. (1,2)
D. (-3,-4)

Answer: A

If there exists a linear relationship between the input and output values, which, if any, of these input/output pairs can be included in the data set? Choose all that apply.

	Input	Output
A.	0	0
B.	4	6
C.	-2	0
D.	4	9
E.	-5	- 4.5

A. Option A
B. Option B
C. Option C
D. Option D
E. Option E

Answer: C, D, E

QUESTION: 77

The solution to which of the following systems of inequalities is graphed below?

$$\frac{5\sqrt{2}(2\sqrt{3} + 4\sqrt{3})}{3\sqrt{3}}$$

A. y<-3x+4
4x-2y<6
B. y > 2x-3
y<3x+4
C. x<-3y+4
y+3 < 2x
D. y>4-3x
y > 2x-3
E. None of the above

Answer: E

SAMPLE QUESTIONS

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