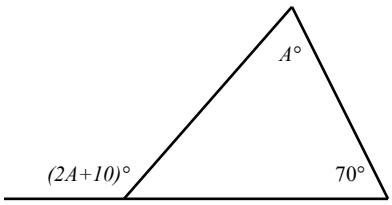
Plug In the Answer Choices

1. James spent $\frac{1}{5}$ of his paycheck buying sunglasses. He then spent half of what was left on food. If he had $20 left, how much was James paycheck ?

   (A) 45
   (B) 50
   (C) 55
   (D) 60
   (E) 65

2. The weight in kilograms that a bridge can hold is represented by the following formula $w(\ell) = \frac{4800}{2\ell + 4}$, where w represents the weight and ℓ represents the length of the bridge in meters. Assuming the length must be in whole meters, what is the longest possible bridge that can hold 450 kilograms?

   (A) 3
   (B) 4
   (C) 5
   (D) 6
   (E) 3



Note: Figure is not drawn to scale.

3. Find the measure of A in the figure shown above.

(A) 40°
(B) 45°
(C) 50°
(D) 55°
(E) 60°

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4. If 25% of (60 - y) is y, then what is the value of y?

(A) 12
(B) 15
(C) 15.5
(D) 16
(E) 16.5

5. In a sequence of numbers, each successive number is found by multiplying the previous number by r and then adding $\frac{1}{2}$. If the first term is 5 and the fifth term is 208, what is the value of r?

(A) 1
(B) 1.5
(C) 2
(D) 2.5
(E) 3

6. Let sets *f*, *g*, and *h* be defined as follows:

f: set of integer multiples of 12

g: set of integer multiples of 15

h: set of integer multiples of 18

What is the smallest integer that is member of all three sets *f*, *g* and *h*?

(A) 3240
(B) 360
(C) 320
(D) 180
(E) 36

2, 2, 3, 4, 5, 7, *s*

7. For the set of integers listed above, the value of the average (arithmetic mean) is less than the value of median. What is the value of *s*?

(A) 4
(B) 3
(C) 2
(D) 1
(E) 0