BEAT THE BUZZER

Question 1

The mean of 4 golfers' final scores is -20. Given that 3 of the scores are -9, -15, and -30, what is the remaining score?

(A) -8

(B) -12

(C) -24

(D) -26

(E) -54

Question 2

To increase the mean of 5 numbers by 7, by how much would the sum of the 5 numbers have to increase?

(F) 5

(G) 7

(H) 12

(J) 35

(K) 70

Question 3

The average race times of the Riveredge High School rowing team is a. When the fastest time and slowest time are removed from the 5 race times, the average is b. Which of the following is an expression for the average of the fastest race time and slowest race time?

(A) $\dfrac{a+b}{2}$

(B) $5a-3b$

(C) $\dfrac{5a+3b}{2}$

(D) $\dfrac{5a-3b}{2}$

(E) $\dfrac{5a+3b}{8}$

Question 4

On the first 7 games of the season, Skyler scored 19, 14, 10, 28, 9, 10, and 22 points. The mean, median, and mode of her points per game were 16, 14, and 10 respectively. During the 8th game, Skyler scored 29 points. How do the mean, median, and mode of all 8 of her points per game compare to the mean, median, and mode of her first 7 points per games?

	Mean	Median	Mode
(F)	greater	greater	greater
(G)	greater	greater	equal
(H)	greater	equal	greater
(J)	greater	equal	equal
(K)	equal	greater	greater

Question 5

The sports analyst is out sick but left you a note about Paire's tennis scores. Unfortunately, it is difficult to read; luckily you can rely on your algebra knowledge. For whole numbers x and y, the list below has 5 as its mean, median, and mode. What is the value of xy?

6, 4, 5, 8, x, y

(A) 10

(B) 15

(C) 20

(D) 25

(E) 30