1986 Q11

11. If A*B means $\dfrac{A + B}{2}$, then (3*5)*8 is

A) 6   B) 8   C) 12   D) 16   E) 30

1998 Q11

11. Harry has 3 sisters and 5 brothers. His sister Harriet has S sisters and B brothers. What is the product of S and B?

(A) 8   (B) 10   (C) 12   (D) 15   (E) 18

2001 Q12

12. If $a \otimes b = \dfrac{a + b}{a - b}$, then $(6 \otimes 4) \otimes 3 =$

(A) 4   (B) 13   (C) 15   (D) 30   (E) 72

2010 Q13

13. The lengths of the sides of a triangle measured in inches are three consecutive integers. The length of the shortest side is 30% of the perimeter. What is the length of the longest side?

(A) 7   (B) 8   (C) 9   (D) 10   (E) 11

2014 Q13

13. If n and m are integers and $n^2 + m^2$ is even, which of the following is impossible?

(A) n and m are even   **(B)** n and m are odd   **(C)** $n + m$ is even

(D) $n + m$ is odd   **(E)** none of these is impossible

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1988 Q14

14. ◊ and Δ are whole numbers and ◊ x Δ = 36. The largest possible value of ◊ + Δ is

A) 12   B) 13   C) 15   D) 20   E) 37