

Student Name: \_\_\_\_\_

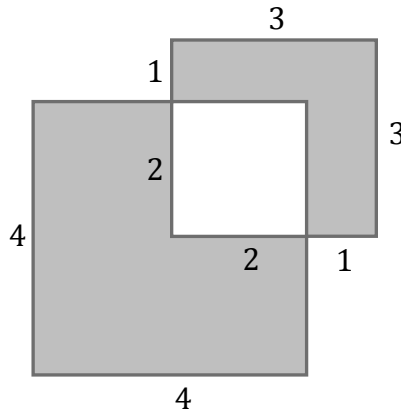
1. A hen is called a “super hen” if it can lay more than one egg in a day. If 2 super hens lay 18 eggs in 3 days, with the same productivity, how many eggs will 1 super hen lay in 1 day?

Answer: \_\_\_\_\_

2. The product of three consecutive whole numbers is 60. What is their sum?

Answer: \_\_\_\_\_

3. A square of side length 4 and a square of side length 3 overlap to form a square of side length 2, as shown. What is the area of the shaded region?



Answer: \_\_\_\_\_

4. A, B, C, D, and E are sitting in a row of five seats. A is not beside B. C is beside D. Who cannot be sitting in the middle seat?

Answer: \_\_\_\_\_

5. There are 20 questions on a test. A correct answer gets you 5 marks and an incorrect answer makes you lose 1 mark. Joe scored 82 on the test and he answered all questions. How many questions did he answer correctly?

Answer: \_\_\_\_\_

6. If  $X \geq 3$  and  $1.5 \leq Y \leq 7.5$ , what is the maximum possible value for  $Y - X$ ?

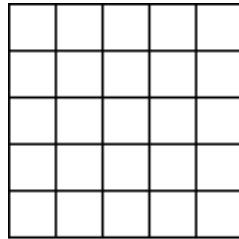
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7. One day, Jim wakes up and discovers that a thief has invaded his wardrobe, leaving him with only 2 shirts, 3 pants, and 1 hat. Obviously, Jim has to wear a shirt and a pair of pants, but the hat is optional. How many ways are there for Jim to dress?

Answer: \_\_\_\_\_

8. What is the maximum number of  $1 \times 3$  tiles that can be packed in a  $5 \times 5$  grid with no overlap? (Rotation by 90 degrees is allowed.)



Answer: \_\_\_\_\_