

1. combinations

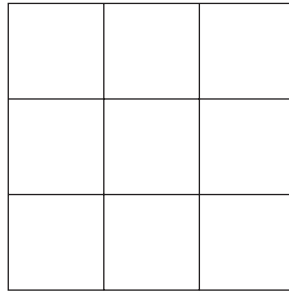
Mrs. Libro's students may write book reports on any three books from a list of five books. How many combinations of three books are possible?



2. _____

Jennifer has taken three exams and earned scores of 92, 77 and 95. She has to take a final exam which will count as two exam scores. What score does she need to earn on the final exam to have an exam average of 90 for the year?

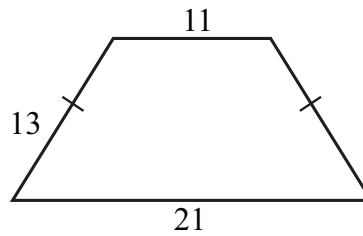
3. rectangles How many rectangles are there in the 3×3 grid made of 9 congruent squares, shown here?



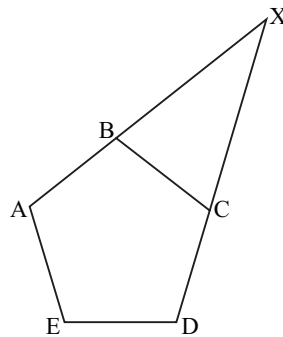
4. cups If $2\frac{1}{2}$ cups of milk are needed to make ice cream for 5 people, how many cups of milk are needed to make ice cream for 20 people?



5. _____ units An isosceles trapezoid has bases of length 11 units and 21 units and legs of length 13 units. In units, what is the height of the trapezoid?



6. _____ degrees When sides AB and DC of regular pentagon ABCDE are extended, they intersect at point X. What is the degree measure of $\angle X$?



7. _____ If x is negative and $x^2 = 16$, what is the value of $x^3 + \sqrt{-x}$?

8. _____ in^2 A $4 \text{ in} \times 4 \text{ in}$ square is surrounded by a border consisting of all points in the plane of the square that are within 1.5 inches of the square and not in the square. In square inches, what is the area of the border? Express your answer as a decimal to the nearest tenth.

