

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

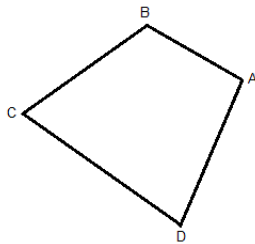
1. What is the value of  $\square$  in the equation  $8 + 28 = \square \times 4$ ?

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

2. Following the order of operations, the result of  $3 \times 8 - 6 \div 2 = ?$

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

3. The perimeter of the shape below is 18 with  $AB = 3$ ,  $BC = 4$ ,  $AD = 5$ . What is the length of  $CD$ ?

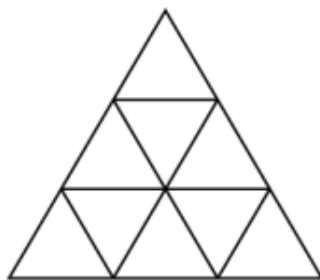


Answer: \_\_\_\_\_

4. What is the largest 3-digit number you can make that uses the digits 0, 5, 2 only once?

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

5. How many triangles are in the picture below? (Hint: The triangles can be different sizes)



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

6. Grace picks some apples from her orchard to give to her friends Alice and Bob. She gave one more apple to Bob than to Alice. If Alice got 5 apples, how many did Grace pick in total?

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

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7. Andrea spent \$23 on strawberry and watermelon candies. She bought 4 strawberry candies which cost \$2 each. Given the watermelon candies cost \$3 each, how many watermelon candies did she buy?

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

8. Consider the following game of tic-tac-toe on a 4x4 grid. The objective of the game is to place 3 X's (or O's) in a row: horizontally, vertically or diagonally. If it is X's turn to place, how many ways can he or she place the “X” to win immediately?

		O	
	X	O	O
	X	X	

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