

# Workout 1

## Answers

1. 49.6	(C)	5. 23	(C)	8. 21.66	(C)
2. 9.50	(F)	6. 82,484	(E, S)	9. 25	(P, S)
3. 28	(F, M, P)	7. 14	(E, M, P, T)	10. 750	(T)
4. $\frac{3}{7}$	(F, M, T)				

### Solution/Representation - Problem #3

We have eight songs from which we must choose two. From the context of the problem, it is clear that choosing to bring songs #1 and #2 is the same as bringing songs #2 and #1. In other words, the order of the two songs does not matter. We can list the songs and count the different pairs:



We see there are seven pairs that include song #1.



There are six pairs that include song #2 and have not been counted above already.



There are five more pairs that include song #3 and have not been counted anywhere above. Can we see

a pattern? Each time there is one fewer pairing, which leads us to see that the total number of pairings/combinations will be  $7 + 6 + 5 + 4 + 3 + 2 + 1 = 28$ .

We also can solve this problem using a formula. We are counting the number of possible combinations of two songs when choosing from eight songs. This is called "8 choose 2" and is represented  ${}_8C_2$ . This is simplified in the following manner:

$$\frac{8!}{2!(8-2)!} = \frac{8!}{2!6!} = \frac{8 \cdot 7 \cdot 6!}{2 \cdot 1 \cdot 6!} = \frac{8 \cdot 7}{2 \cdot 1} = 28.$$

### Representation - Problem #7

For this problem, we can draw only vertical and horizontal segments. This limits our segment sizes to 1, 2 and 3 units. We need to count the number of 1 by 1, 2 by 2 and 3 by 3 squares that can be drawn. Rather than drawing each of the squares, we'll indicate with a star where a top, left vertex could be placed. There are nine places for unit squares to be drawn, and the nine possible top, left vertices of these 1 by 1 squares are indicated with stars in Figure 1. There are four places for the 2 by 2 squares to be drawn (Figure 2), and only one place for the 3 by 3 square to be drawn (Figure 3). This 3 by 3 square is placed along the 12 boundary points of the grid. This is a total of  $9 + 4 + 1 = 14$  squares.

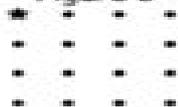
Figure 1



Figure 2



Figure 3



Notice the stars in Figures 1, 2 and 3 fall in square formations.

This is why the amounts of the different-sized squares are perfect squares: 9, 4 and 1. So if we had a 10 by 10 grid of points, we could quickly deduce that there would be  $81 + 64 + 49 + 36 + 25 + 16 + 9 + 4 + 1 = 285$  squares that could be drawn (with the largest square measuring 9 units by 9 units), according to the same restrictions in problem #7.

# Mathcounts Workout 5 Answers

**Ann Snider, Susan Bunyan, Educational  
Center, Inc**

## **Mathcounts Workout 5 Answers:**

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