

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.

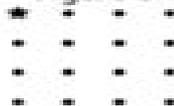
Figure 1



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:

Twenty Mock Mathcounts Sprint Round Tests Sam Chen, Guiling P. Chen, 2011 This book contains 20 sets of mock Mathcounts Sprint Round problems with the answer keys Each test consists of 30 problems These problems can be used to train students to compete at the Mathcounts State level as well as the National level Solutions can be downloaded free [http www.mymathcounts.com](http://www.mymathcounts.com) Forum index.php board 243 0 Illinois Standards Achievement Test Workout Mathematics Triumph Learning, LLC., 2009 Grade 5 Math Workbook with Answers Chris McMullen, 2020-09-04 What is fifth grade math Not all schools and teachers around the world cover the same topics in the same depth in 5th grade yet at this stage the student is generally learning a variety of arithmetic and prealgebra skills This fifth grade math workbook includes decimal place values arithmetic with decimals arithmetic with fractions including mixed numbers multiplication with multiple digits long division practice data analysis with a variety of graphs pattern recognition additive and multiplicative relationships geometric figures including perimeter and area measurement and unit conversions customary and metric a first introduction to working with variables financial mathematics and other fifth grade math and prealgebra skills The author Chris McMullen Ph D has over twenty years of experience teaching math skills to physics students He prepared this workbook to share his strategies for applying arithmetic and prealgebra skills The answers to all of the exercises can be checked with a key at the back Math Skills Workout Ann Snider, Susan Bunyan, Educational Center, Inc, 2001 Strengthens students math skills and builds confidence provides vocabulary to review and materials lists includes pattern pages for manipulatives and more contains over 150 fun extension activities **Math Mammoth Grade 5 Answer Keys** Maria Miller, 2019-10-24 This book has gray scale interior pages Includes answer keys to Math Mammoth Grade 5 A Worktext Math Mammoth Grade 5 B Worktext grade 5 tests and cumulative reviews Note This is the 2020 edition **Workout Mathematics, Grade 5** Triumph Learning, LLC., 2008 Quick review of the skill with a modeled example guided practice independent practice plus math vocabulary review and practice

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