



Workout 5

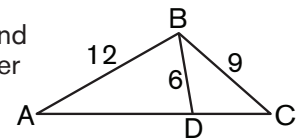
181. _____ seats It is the policy of Sky Airlines to cancel any flight that has fewer than 80% of its seats filled. A Sky Airlines plane has 24 rows with 6 seats per row. What is the maximum number of empty seats on a flight that is not canceled?

182. _____ Using only the eight digits 0, 3, 4, 6, 6, 7, 8 and 8, Erika forms two four-digit numbers whose product is as large as possible. What is the sum of Erika's numbers?

183. _____ inches Kathleen has a pattern to knit a scarf that requires 441 yards of yarn. For this particular pattern, each stitch uses 0.9 inch of yarn, each row contains 41 stitches and each full row of knitting contributes $\frac{1}{5}$ inch of length to the scarf. How many inches long will her scarf be when completed? Express your answer to the nearest whole number.

184. _____ What is the sum of the base-ten numbers from 5 to 50, inclusive, that are palindromes when written in base two?

185. _____ units The figure shows triangle ABC with $AB = 12$, $BC = 9$, $BD = 6$ and $AD = 2DC$. How many units long is side AC? Express your answer as a decimal to the nearest tenth.

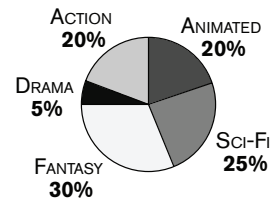


186. _____ degrees If the degree measure of an angle's supplement is three times that of its complement, what is the degree measure of the angle?

187. _____ % Mindy and Sunny are hunting for two dozen hidden prizes. Mindy has found one-third of the prizes and Sunny has found 9 fewer than twice the number of prizes that Mindy has found. What percent of the prizes remain hidden? Express your answer as a decimal to the nearest tenth.

188. _____ students The circle graph shows the results of a survey, in which Ms. Prather asked each of her homeroom students to select her or his favorite type of movie from the five genres shown. If all 20 of Ms. Prather's homeroom students responded to the survey, how many students' favorite type of movie is fantasy?

FAVORITE TYPES OF MOVIE



189. _____ ways In how many ways can five people of different heights line up single-file so that there is exactly one person standing immediately behind someone who is taller?

190. _____ Syd doubles the 3-digit number TWO to get the 4-digit number FOUR. Each letter represents a distinct digit, and O represents the digit 7. What is the 3-digit number TWO?