



Relay Practice Questions

Relay instructions

The Relay questions runs for maximum of 30 minutes and consists of four questions. After answering all four Relay questions, a team may ask their proctor if they have completed the Relay successfully; if not, they may try to find their mistake(s), but their proctor is not permitted to indicate which question(s) they have answered incorrectly. Teams will be awarded 1 point for answering the first Relay question correctly; 2 points for answering the first two Relay questions correctly; 3 points for answering the first three Relay questions correctly; and 5 points for answering all four Relay questions correctly. No other combination of correct/incorrect answers will be awarded any points. As well, teams may earn bonus points for completing the Relay quickly. First team done correctly will get an extra 10 bonus points, the second place team will get 5 points and the third place team will get 3 extra bonus points.

Gr.9 Given: a line k , through the origin with a slope of $m = \frac{5}{4}$.

What is the x – coordinate for a perpendicular line to k , with direct variation, if $y = -20$?

Answer: 25

Place your answer here:

Gr.10 Find $\frac{(K^2 - 2K - 8)(K^2 - 5K)}{(K^2 - 9K + 20)(K^2 + 4K + 4)}$ given $K = 13$.

Answer: $\frac{13}{15}$

Place your answer here:

Gr.11 Dan can consistently do 80-multiplication calculation in 10 minutes.
Mary can consistently do 60-multiplication calculation in 8 minutes.
How long will it take both Dan and Mary working together to do 100 multiplication calculations? Round your answer to the nearest second.

Answer: 387 sec

Place your answer here:

Gr.12 An unfair coin is flipped twice. The probability of getting two heads is 0.81. Compute the probability of flipping the coin twice and getting two tails.

Answer: 0.01

Place your answer here: