

2006 Washington State Math Championship

Unless a particular problem directs otherwise, give an exact answer or one rounded to the nearest thousandth.

Potpourri - Grade 6

1. How many prime numbers have a remainder of 0 when divided by 2?
2. To keep the answers safe, the words were written with a secret code. In this code, the number 26 stood for the letter "A", the number 25 stood for "B", and so on. In this code, the seven numbers 24, 12, 9, 9, 22, 24, 7 stand for what word?
3. If 6 widgets = 24 fidgets, then how many widgets is 16 fidgets?
4. If the pattern of the first four letters in MATHMATHMATH... continues, then what is the 503rd letter in the pattern?
5. Bob ran a 5km race where each kilometer his speed decreased 1km/hr. If he averaged 5km/hr at first, then how many minutes did it take to finish?
6. How many revolutions does the second hand on a clock make in eight hours?
7. What time is 1 hour and 31 minutes before 2 hours and 59 minutes after 1:41 P.M.
8. How many positive integers are factors of 40?
9. If today is March 15th, then 2006 days from now what month will it be?
10. If one blue equals 3 greens, 6 reds equals 3 blues, and 3 yellows equals 9 red, then 10 yellows equals how many greens?

