

2003 Washington State Math Championship

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

Mental Math - Grade 5

1. Radii of a circle cut it into 8 equal sectors. The central angle of each sector is how many degrees?
2. What is the combined volume of three cubes that each have an edge length of 2?
3. What is 50% of one-eighth of 200?
4. A square pyramid fits exactly on top of a square prism. How many edges does the resulting figure have?
5. Express four-fifths minus five-tenths as a percent.
6. What is the square root of 169?
7. What is the sum of 12, 39, and 38?
8. What is the perimeter of regular hexagon with side length 13?
9. What is 17 percent of 300?
10. How many thousand is 150 times 300?
11. What is 9 times 19?
12. A square with area 16 is combined with 8 others just like it to form a larger square. What is the perimeter of the larger square?
13. What is one-seventh of 77?
14. What is the difference between one-fourth and one-fifth?
15. What is the number of degrees in a right angle times the number of degrees of one angle of an equilateral triangle?
16. What is the radius of a circle with circumference 36π ?
17. What is the product of first 2 composite numbers?
18. What is the sum of negative 5, negative 21, negative 25, and positive 30?
19. What is the product of 19 and 45?
20. A card is drawn from a standard deck, and a die is tossed. What is the probability of getting a club and an odd number?