## "Math Is Cool" Championships — 2019-20

4<sup>th</sup> Grade — February 28, 2020

## **Team Contest**

1	Zara is walking at a steady pace of 2 $\frac{1}{2}$ miles per hour. After 4 hours, how many mile has Zara walked?	es
2	Eric was doing a mental math problem, in which he was to subtract 6 from a certa number and then multiply the difference by 7. However, Eric mixed up the order ar first multiplied by 7, then subtracted 6, getting 22. What was the correct answer the math problem?	in nd to
3	What is the remainder when 123,456,789 is divided by 9?	
4	The Arctic is warming at a rate of 0.225°C every 6 months. If it warms at a constant rate, how much will the Arctic warm in five years?	nt
5	What is the surface area, in square centimeters, of a right rectangular prism wite edges measuring 3 cm, 6 cm, and 2 cm?	th
6	Grace and Lily are throwing darts at a target. If Grace has a 60% chance of hittin the target, and Lily has a 50% chance of hitting the target, what is the probabili that they both hit the target? Answer as a percentage.	ng ty
7	What is 5/6 of 1/2 of 4/5 of 15?	
8	A palindrome is a number that reads the same backwards and forwards. For exampl 1221 is a palindrome. What is the product of the third largest 3-digit palindrome are the smallest 2-digit palindrome?	le, nd
9	A lemonade pitcher contains 370 milliliters (mL) of lemonade. You have cups that co hold 310 mL, 260 mL, and 170 mL. You pour all of the lemonade into the three glasse so that each glass is filled to the same fraction of the cup capacity. What volume of lemonade did you pour into the smallest of the cups?	an es of
10	Two sides of a square field are increased by five yards, as seen in the diagram. This causes the area of the field to increase by 155 square yards. Find the area of the original field in square yards. 5 yards 5 yards	