2020 Castro Valley Junior Math Tournament Algebra & Probability Team Test – 3rd-5th Grades

 1 What number is 62 more than the product of 7 and 48? 2 What is the remainder when 31 is divided by 5? 3 When the secret number is increased by 73 and this result is divided by 8 final result is 53. What is the secret number? 4 Evaluate: ⁶¹/₄₁ 5 Evaluate: 8 - 6 ÷ 2 6 Mariana can ride her bike at a speed of 2 miles per hour. How many mile will she ride in 2 hours? 7 A bag contains 7 purple marbles and 9 black marbles. When one marble drawn at random, what is the probability that it is purple? 8 If x@y = 2x + 9y, evaluate 19@9. 9 When one card is drawn from a standard 52-card deck, what is the probability that it ranks higher than a 9? Assume the Ace is the highest r 10 Evaluate: -45(-7 + -3) 11 When the spinner to the right is spun, what is the probability that it lands on 2? Assume all of the sectors are the same shape. 12 When a single fair coin is flipped twice, what is the probability that the 	, the
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second flip shows heads?	
13 How many days are in 2 non-leap years?	
14 What value of b satisfies $5b - 96 = 14$?	
15 Express 0.05076 in scientific notation.	
16 If 4 Aardvarks are equivalent to 3 Basketballs, how many Aardvarks are	
equivalent to 72 Basketballs?	
17 Arrange the letters below in order of descending value (e.g. BCDA):	
A = $\frac{2}{6}$, B = 1.1, C = $\frac{1}{8}$, D = 0.75	
18 A bag contains 6 yellow marbles and 4 green marbles. When two marble	
are drawn, what is the probability that exactly 2 of them are green?	es
19 What is the median of the data set $\{4, 0, 9, 3, 8\}$?	es
20 Evaluate as a mixed number : $2\frac{1}{6} \div 1\frac{1}{3}$	es

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DO NOT TURN OVER THIS TEST UNTIL YOU ARE INSTRUCTED TO BEGIN

ONLY ANSWERS WRITTEN ON THE ANSWER SHEET WILL BE SCORED

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