Test 20 Name # Date

Excel Math

① 600 − 156 = **444**

② 5.29 × 78 = **412.62**

③ 278 × 86 = **23,908**

④ $9\overline{)5,929}$ = **658 r7**

⑤ 12 x 11 = **132**

⑥ CMLV = **955**

⑦ 63 crayons = **5** dozen and **3** crayons

⑧ $\frac{1}{4} \times \frac{1}{4} = \mathbf{\frac{1}{16}}$

⑨ 15 x $\frac{1}{2}$ = **$7\frac{1}{2}$**

⑩ (90, 89, 87, 84, 80, **75**)

⑪ 47 of Maribel's 50 balloons are inflated. What percent of the balloons are inflated?

94%

⑫ The average weight of 4 boys is 48 kilograms. What is their total weight?

192 kg

⑬ On four different trips Taisia drove 178, 481, 211 and 523 kilometers. Estimate the total number of km Taisia drove.

1,400 km

⑭ Trent pitched $\frac{7}{9}$ of a ball game. Jody pitched for $\frac{2}{3}$ of a game. Who pitched more innings?

(Trent)

Jody

⑮ Tanda bought 25 cherry sodas, 15 grape sodas and 5 lime sodas. Which choice shows the ratio of cherry to lime sodas?

(5:1) 1:5

1:3 3:1

⑯ Forty-five people want to go on a trip. Each car will hold 6 people. How many cars will they need?

8 cars

⑰ Which statements are true?

(4.1 > 4.09) 4.27 = 4.72

3.2 ≠ 3.20 3.46 < 3.39

⑱ Circle the denominator of the fraction in the set that best represents the shaded portion.

$\left(\frac{2}{3}, \frac{1}{2}, \frac{3}{6}, \frac{1}{5}, \frac{1}{(8)}\right)$

⑲ Which of these figures is similar to the figure on the right?

⑳ A star is 16,301,434 miles away from the Earth. If you could take a trip to the star and back, you would travel approximately

(32 million miles.)

16 million miles.

8 million miles.

Create a Problem 20 Name

Excel Math

THE ROMEROS' MOVE II

Julio's dad got a new job, so the family was moving to another town. Julio's task was to figure out the shape of each piece of furniture and its measurements, or dimensions. Julio's dad asked him to calculate the cubic volume of each piece of furniture and add them all to find the total cubic volume of their furniture. This would help them decide which truck they should rent. Julio made a list of dimensions and cubic volumes.

Fill in the volumes in the chart:

Furniture	Dimensions	Cubic volume
1 Couch	6 ft x 3 ft x 3 ft	**54**
2 Chairs, each	3 ft x 3 ft x 3 ft	**27 x 2 = 54**
1 Television	3 ft x 2 ft x 2 ft	**12**
1 Queen size bed	7 ft x 5 ft x 2 ft	**70**
2 Bunk beds, each	3 ft x 6 ft x 4 ft	**72 x 2 = 144**
3 Dressers, each	4 ft x 2 ft x 2 ft	**16 x 3 = 48**
4 chairs, each	2 ft x 2 ft x 3 ft	**12 x 4 = 48**
1 Folded-up Table	4 ft x 2.5 ft x 1 ft	**10**
Total volume of all the furniture combined		**440 cubic feet**

The truck company had small, medium and large trucks. Julio got the inside measurements and wrote them down. Calculate the volume exactly, then round your answers to the nearest hundred cubic feet:

Truck	Dimensions	Cubic Volume	Rounded to the Nearest 100
Small	11 ft x 7 ft x 7 ft	**539**	**500**
Medium	14 ft x 7 ft x 7 ft	**686**	**700**
Large	20 ft x 8 ft x 8 ft	**1280**	**1300**

Which one of the trucks should Mr. Romero rent to move the family? _____

The smallest truck will work

Could there be more than one answer to which is the right truck? If so, explain why.

Yes. The Romeros might have lots of things besides the furniture, which means they might need a bigger truck.