Rocket City Math League

2021-2022

Interschool Test

Junior Division

Write the answers in the answer boxes below. All answers must be written in exact, reduced, simplified, and rationalized form. Leave answers in terms of π unless otherwise specified. **No calculators, books, or other aides may be used. Each school may submit only one official answer sheet. Answer sheets must be postmarked by December 6, 2021. Time limit: 30 minutes**

1. *(3 points)* 15	**6.** *(4 points)* 72	**11.** *(5 points)* D, A, B, C
2. *(3 points)* 80 or $\$80$	**7.** *(4 points)* $\frac{54}{35}$	**12.** *(5 points)* $125a^3 - 5a$
3. *(3 points)* 1191.60 or $\$1191.60$	**8.** *(4 points)* 3	**13.** *(5 points)* $11\frac{11}{12}$ or $\frac{143}{12}$
4. *(3 points)* $\frac{274}{25}$ or $10\frac{24}{25}$ or 10.96	**9.** *(4 points)* $\frac{61}{7}$	**14.** *(5 points)* 35
5. *(3 points)* 20	**10.** *(4 points)* 5	**15.** *(5 points)* $\frac{35}{2}$ or 17.5

Sponsor Name: _____ Sponsor E-mail: _____

School Name: _____

School Address: _____

City _____ State ____ Zip _____

Grades in your school: _____

Grades participating in the Inter-School:_____

Rocket City Math League www.rocketcitymath.org
Sponsored by Mu Alpha Theta - National Math Honor Society www.mualphatheta.org
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