

ARCHIMEDEAN MIDDLE CONSERVATORY

Part A

1. Write the prime factorization of 48.
2. Evaluate $11 - 2(19 + 1) \div 2^2$.
3. Find the GCF of 24 and 51.
4. Find the LCM of 4 and 6.
5. A mug is $\frac{1}{7}$ full. The mug contains $\frac{1}{3}$ of a cup of water. Find the capacity of the mug. Write the answer as a fraction or mixed number in simplest form.
6. Evaluate $28.197 - 13.911 + 6.147$. Write the answer as a decimal.
7. Find 6.69×8.19 . Write the answer as a decimal.
8. Find $\left(\frac{13}{15}\right)^2$. Write the answer in simplest form.
9. Find $0.464 \div 0.16$. Write the answer as a decimal.

Part B

1. Write the prime factorization of 171.
2. Evaluate $7 - 9(17 + 7) \div 6^2$.
3. Find the GCF of 56 and 88.
4. Find the LCM of 12 and 9.
5. A mug is $\frac{1}{5}$ full. The mug contains $\frac{3}{8}$ of a cup of water. Find the capacity of the mug. Write the answer as a fraction or mixed number in simplest form.
6. Evaluate $24.891 + 6.588 - 16.965$. Write the answer as a decimal.
7. Find 6.81×8.82 . Write the answer as a decimal.
8. Find $\left(\frac{3}{13}\right)^2$. Write the answer in simplest form.
9. Find $0.442 \div 0.34$. Write the answer as a decimal.