Decimal Prize Ladder

Choose one answer per question. Circle A, B, C, or D.

1. What value does the digit 7 represent in the number 6.074?
   A. 0.07
   B. 0.7
   C. 0.007
   D. 7

2. Which decimal is equal to four tenths plus nine thousandths?
   A. 0.094
   B. 0.49
   C. 0.409
   D. 0.049

3. Which decimal has the same value as 5.2800?
   A. 5.028
   B. 5.28
   C. 5.208
   D. 5.0028

4. Of these four decimals, which is the smallest?
   A. 0.702
   B. 0.7
   C. 0.72
   D. 0.072

5. Round 8.376 to the nearest hundredth.
   A. 8.37
   B. 8.38
   C. 8.4
   D. 8.376

6. What is 3.85 plus 0.076?
   A. 3.926
   B. 3.856
   C. 3.976
   D. 4.026

7. What is 12.4 minus 3.685?
   A. 9.715
   B. 8.815
   C. 9.285
   D. 8.715

8. What is 2.4 times 0.35?
   A. 8.4
   B. 0.084
   C. 0.84
   D. 84

9. What is 6.72 divided by 0.8?
   A. 8.4
   B. 0.84
   C. 5.376
   D. 84

10. What decimal is exactly equal to 37/125?
   A. 0.329
   B. 0.037
   C. 0.37
   D. 0.296

11. A studio has 10 meters of cable. It uses 4 lengths of 1.35 meters and 2 lengths of 0.85 meter. Ignore any loss from cutting. How much cable remains?
   A. 4.6 meters
   B. 3.75 meters
   C. 2.9 meters
   D. 7.1 meters

12. Each empty pot has a mass of 0.675 kilogram. Each identical filled pot has a mass of 1.825 kilograms. What is the combined mass of the contents alone in 6 filled pots?
   A. 4.05 kilograms
   B. 6.9 kilograms
   C. 10.95 kilograms
   D. 15 kilograms

13. Three readings are 2.46, 2.46 and 2.46. Group A rounds each reading to the nearest tenth before adding. Group B adds first and rounds its sum to the nearest tenth. How much larger is Group A’s result?

A. 0.12
B. 0.02
C. 0.04
D. 0.1

14. A tank begins with 1.8 liters of water. In each of 8 cycles it gains 0.45 liter and dispenses 0.075 liter. How much water is in the tank after the 8 cycles?

A. 4.8 liters
B. 3.0 liters
C. 5.4 liters
D. 6.0 liters

15. Two identical trays carrying 8 identical jars have a total mass of 12.60 kilograms. The same two trays carrying 5 of those jars have a total mass of 8.25 kilograms. What is the mass of one empty tray?

A. 1.45 kilograms
B. 1.00 kilogram
C. 0.50 kilogram
D. 0.725 kilogram