Millionaire Questions for Adults

Use this key to check answers and read the explanations.

1. Which country contains the city of Kyoto?
   - A. China
   - B. Japan
   - C. South Korea
   - D. Thailand

   Correct answer: B. Japan

   Kyoto is a historic Japanese city; the later route question uses map scale instead of country recall.

2. In standard Western equal temperament, how many semitones span one octave?
   - A. 14
   - B. 8
   - C. 10
   - D. 12

   Correct answer: D. 12

   An octave spans twelve equal-tempered semitones.

3. What does 'annual' mean?
   - A. Once each year
   - B. Once each month
   - C. Twice each week
   - D. Every ten years

   Correct answer: A. Once each year

   Annual relates to a year or an event occurring yearly.

4. Which ingredient is a common acid in a baking-soda reaction?
   - A. Vegetable oil
   - B. Table salt
   - C. Vinegar
   - D. Plain flour

   Correct answer: C. Vinegar

   Vinegar contains acetic acid, which reacts with bicarbonate to release gas.

5. Which U.S. document begins 'We the People'?
   A. Emancipation Proclamation
   B. Declaration of Independence
   C. Constitution
   D. Articles of Confederation
   Correct answer: C. Constitution
   The Constitution's preamble begins with those words.

6. A walking map uses 1 cm for 400 m. How far is a 7.5 cm route?
   A. 3 km
   B. 300 m
   C. 30 km
   D. 1.875 km
   Correct answer: A. 3 km
   7.5 × 400 = 3,000 metres, equal to 3 km.

7. A melody moves up one octave from 220 Hz. What frequency is the new note?
   A. 880 Hz
   B. 232 Hz
   C. 330 Hz
   D. 440 Hz
   Correct answer: D. 440 Hz
   An octave doubles frequency, so 220 × 2 = 440.

8. A report calls a cost 'annual' and lists $240. What is the equal monthly share?
   A. $24
   B. $20
   C. $12
   D. $30
   Correct answer: B. $20
   An annual cost spans twelve months; 240 divided by 12 is 20.

9. A recipe serves six using 450 g rice. How much rice serves ten at the same ratio?
   A. 750 g
   B. 600 g
   C. 900 g
   D. 675 g
   Correct answer: A. 750 g
   Each serving uses 75 g. Ten servings use 750 g.

10. A survey sample has 80 people; 30 choose A and 50 choose B. What percent choose B?

A. 60%
B. 50%
C. 62.5%
D. 37.5%

Correct answer: C. 62.5%
50 divided by 80 is 0.625. The result describes this sample, not an entire population.

11. A historical letter was written in 1912 about its author's experience that week. For studying that experience, what kind of source is it?

A. A later textbook
B. Secondary
C. Automatically fictional
D. Primary

Correct answer: D. Primary
It records a firsthand contemporary account; reliability still needs evaluation.

12. A price rises 25%, then falls 20%. What is the net change from the original?

A. 5% increase
B. No change
C. 5% decrease
D. 10% decrease

Correct answer: B. No change
The multipliers 1.25 and 0.8 multiply to 1, so the changes cancel.

13. Four colleagues each choose one of three lunch options. How many ordered choice combinations are possible?

A. 64
B. 12
C. 24
D. 81

Correct answer: D. 81
Each person's choice is independent: $3 \times 3 \times 3 \times 3 = 81$.

14. A car drives 50 km at 50 km/h and the next 50 km at 100 km/h without stopping. What is its average speed for the full trip?

A. 66 2/3 km/h
B. 75 km/h
C. 60 km/h
D. 80 km/h

Correct answer: A. 66 2/3 km/h
The two legs take 1 hour and 1/2 hour. Divide 100 km by 1.5 hours.

15. Three boxes hold red pieces, blue pieces, or both. They are labeled Red, Blue, and Mixed, one label per box. All three labels are wrong. You draw a red piece from the box labeled Mixed. What is in that box?

A. A mix
B. Only blue
C. Only red
D. No items

Correct answer: C. Only red
The mixed label is wrong, so the box is pure; drawing red identifies it as the all-red box.