Sample Questions and Answers

Pilot Aptitude Test Practice: Questions and Answers With Explanations

15 sample questions from the question types on this page, with the answer and a worked explanation for each one. Our own questions, written for practice.

Questions on pages 1 and 2, answers with explanations from page 3, so you can practise before you check.

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1. Number series

What is the next number? 81, 27, 9, 3, ...

A. 0 B. 1 C. 2 D. 3

2. Number series

What is the next number? 1, 4, 9, 16, 25, ...

A. 36 B. 30 C. 34 D. 49

3. Numerical reasoning

A cadet scores 18, 22 and 26 in three tests. What is the mean score?

A. 20 B. 21 C. 24 D. 22

4. Numerical reasoning

The price of fuel rises from 1.60 to 1.84 per litre. What is the percentage increase?

A. 12% B. 15% C. 14% D. 24%

5. Mathematics

What is 3/4 plus 2/5? Give the answer as a decimal.

A. 1.15 B. 0.95 C. 1.05 D. 1.25

6. Mathematics

Solve: $5(x - 2) = 3x + 4$.

A. 3 B. 5 C. 7 D. 9

7. Mathematics

A rectangular apron is 12 m long and 7.5 m wide. What is its area?

A. 39 m^2 B. 84 m^2 C. 96 m^2 D. 90 m^2

8. Physics

An object travels 300 m in 12 seconds at a constant speed. What is its speed?

A. 20 m/s B. 25 m/s C. 30 m/s D. 36 m/s

9. Physics

What is the weight of a mass of 80 kg? Use $g = 9.81$ m/s^2.

A. 8.2 N B. 78.5 N C. 784.8 N D. 800 N

10. Physics

A 12 V supply drives a current through a 4 ohm resistor. What is the current?

A. 0.33 A B. 3 A C. 8 A D. 48 A

11. Verbal reasoning

> The morning briefing starts at 07:30. Crew who arrive after 07:15 must report to the duty officer before they join the briefing.

Statement: A pilot who arrives at 07:20 must report to the duty officer.

A. True B. False C. Cannot say

12. Verbal reasoning

The morning briefing starts at 07:30. Crew who arrive after 07:15 must report to the duty officer before they join the briefing.

Statement: The briefing lasts 45 minutes.

A. True B. False C. Cannot say

13. Spatial orientation

You are on a heading of 315°. You turn right through 90°. What is your new heading?

A. 045° B. 135° C. 225° D. 405°

14. Mechanical reasoning

Gear A has 20 teeth and turns at 60 rpm. It drives gear B, which has 40 teeth. How fast does gear B turn?

A. 30 rpm B. 60 rpm C. 80 rpm D. 120 rpm

15. Logical reasoning

All of the school's gliders are white. No white aircraft is parked on the apron today. Statement: None of the school's gliders is parked on the apron today.

A. True B. False C. Cannot say

Answers and Explanations

1. B 1

Each number is divided by 3. 3 divided by 3 is 1.

2. A 36

These are square numbers: 1^2, 2^2, 3^2, 4^2, 5^2. Next is 6^2, which is 36.

3. D 22

18 plus 22 plus 26 is 66. 66 divided by 3 is 22.

4. B 15%

The rise is 0.24. 0.24 divided by 1.60 is 0.15, so 15%.

5. A 1.15

Use twentieths: 15/20 plus 8/20 is 23/20, which is 1.15.

6. C 7

5x minus 10 equals 3x plus 4. So 2x equals 14 and x is 7.

7. D 90 m²

Area is length times width: 12 times 7.5 is 90 m².

8. B 25 m/s

Speed is distance divided by time: 300 divided by 12 is 25 m/s.

9. C 784.8 N

Weight is mass times g: 80 times 9.81 is 784.8 N.

10. B 3 A

Ohm's law: current is voltage divided by resistance. 12 divided by 4 is 3 A.

11. A True

07:20 is after 07:15, so the text says the pilot must report to the duty officer. True.

12. C Cannot say

The text gives the start time only, not how long the briefing lasts. Cannot say.

13. A 045°

315 plus 90 is 405. Subtract 360: 045°.

14. A 30 rpm

Gear B has twice as many teeth, so it turns at half the speed: 30 rpm, in the opposite direction.

15. A True

Every glider of the school is white, and no white aircraft is on the apron. So none of the gliders can be on the apron. True.

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