

# ACT Practice Questions

## English

**Question:** Choose the best revision for the following sentence: 'The dog barked loudly, running around the yard.'

**Answer:** The dog barked loudly while running around the yard.

**Question:** Identify the underlined portion in the sentence: 'His favorite activities include swimming, hiking, and playing tennis.'

**Answer:** Independent clause

**Question:** Which sentence is grammatically correct?

**Answer:** Neither John nor Maria is attending the event.

**Question:** Select the sentence with the correct use of 'its' and 'it's'.

**Answer:** It's important to feed a cat its proper diet.

**Question:** Identify the antecedent in the sentence: 'The teacher asked the students to submit their assignments.'

**Answer:** Assignments

**Question:** Which sentence is punctuated correctly?

**Answer:** She told him, 'I'll be there at 6.'

**Question:** Choose the correctly punctuated sentence.

**Answer:** Despite the rain, the game continued.

**Question:** Select the sentence with the correct use of 'effect' and 'affect'.

**Answer:** The special effects in the movie were amazing.

**Question:** Choose the best revision for the following sentence: 'I ain't got no time for that.'

**Answer:** I don't have any time for that.

**Question:** Identify the error in the sentence: 'The book laid on the table for days.'

**Answer:** Laid

**Question:** Which sentence is grammatically correct?

**Answer:** Who is responsible for this mess?

**Question:** Choose the correct form of the verb: 'She \_\_\_\_\_ to the store yesterday.'

**Answer:** Went

**Question:** Identify the conjunction in the sentence: 'I like both chocolate and vanilla ice cream.'

**Answer:** And

**Question:** Select the sentence with the correct use of 'farther' and 'further'.

**Answer:** The mountains are farther than they appear.

**Question:** Choose the sentence with the correct use of 'their', 'there', and 'they're'.

**Answer:** They're going to the park over there.

**Question:** Identify the subject in the sentence: 'Running in the morning helps to keep me fit.'

**Answer:** Me

**Question:** Choose the correctly punctuated sentence.

**Answer:** The concert was amazing, it exceeded my expectations.

**Question:** Select the sentence with the correct use of 'accept' and 'except'.

**Answer:** I accept your apology.

**Question:** Identify the error in the sentence: 'The news are always interesting.'

**Answer:** Are

**Question:** Which sentence is punctuated correctly?

**Answer:** She asked, 'Are you coming?'

**Question:** Choose the best revision for the following sentence: 'I seen that movie last week.'

**Answer:** I saw that movie last week.

**Question:** Identify the antonym for the word 'benevolent'.

**Answer:** Malevolent

**Question:** Select the sentence with the correct use of 'fewer' and 'less'.

**Answer:** I have fewer friends than you.

**Question:** Choose the sentence with the correct use of 'its' and 'it's'.

**Answer:** It's a beautiful day, isn't it?

**Question:** Identify the error in the sentence: 'The team are playing well together.'

**Answer:** Are

**Question:** Select the sentence with the correct use of 'affect' and 'effect'.

**Answer:** The news had a positive effect on the community.

**Question:** Choose the sentence with the correct use of 'their', 'there', and 'they're'.

**Answer:** They're going to the store over there.

**Question:** Identify the error in the sentence: 'He don't know the answer.'

**Answer:** Don't

## **Math**

**Question:** Solve for x:  $(2x + 5 = 17)$ .

**Answer:** 8

**Question:** What is the value of  $(3y - 7)$  when  $(y = 4)$ ?

**Answer:** 5

**Question:** If  $(a + b = 12)$  and  $(a - b = 4)$ , what is the value of  $(a)$ ?

**Answer:** 8

**Question:** Find the area of a rectangle with length  $(6)$  units and width  $(4)$  units.

**Answer:** 24 sq units

**Question:** Simplify:  $2(3x - 5) + 4x$ .

**Answer:**  $10x - 10$

**Question:** If  $(2^a = 16)$ , what is the value of  $(a)$ ?

**Answer:** 4

**Question:** A circle has a radius of  $(5)$  cm. What is its circumference? (Use  $\pi \approx 3.14$ )

**Answer:** 31.4 cm

**Question:** If  $(4x - 3 = 5)$ , what is the value of  $(x)$ ?

**Answer:** 2

**Question:** The sum of two consecutive even integers is  $(34)$ . What are the integers?

**Answer:** 20, 22

**Question:** Solve for  $(y)$ :  $2y + 7 = 15$ .

**Answer:** 6

**Question:** If  $(3z + 2 = 11)$ , what is the value of  $(z)$ ?

**Answer:** 1

**Question:** Find the slope of the line passing through the points  $(2, 3)$  and  $(5, 9)$ .

**Answer:** 4

**Question:** What is the solution to the equation  $5x - 2 = 3x + 8$ ?

**Answer:** 5

**Question:** A right-angled triangle has legs of lengths  $(a = 3)$  and  $(b = 4)$ . What is the length of the hypotenuse?

**Answer:** 5

**Question:** Evaluate:  $3^4 - 2^3$ .

**Answer:** 69

**Question:** If  $(x + 3 = 7)$ , what is the value of  $(x)$ ?

**Answer:** 2

**Question:** If  $(5p - 2 = 18)$ , what is the value of  $(p)$ ?

**Answer:** 6

**Question:** What is the square of the sum of  $(a = 2)$  and  $(b = 3)$ ?

**Answer:** 49

**Question:** The sum of two numbers is  $(25)$ . If one number is  $(12)$ , what is the other number?

**Answer:** 13

**Question:** If  $(2^b = 16)$ , what is the value of  $(b)$ ?

**Answer:** 2

**Question:** Simplify the expression:  $2(x - 3) + 4$ .

**Answer:**  $2x - 2$

**Question:** The sum of three consecutive odd integers is  $(45)$ . What are the integers?

**Answer:** 17, 19, 21

**Question:** If  $(4c + 3 = 15)$ , what is the value of  $(c)$ ?

**Answer:** 3

**Question:** The area of a triangle is  $(24)$  square units. If the base is  $(6)$  units, what is the height?

**Answer:** 6

**Question:** If  $(n^2 = 49)$ , what is the value of  $(n)$ ?

**Answer:** 7

**Question:** Solve the equation:  $3x - 2 = 7$ .

**Answer:** 3

## **Science**

**Question:** Which of the following is a characteristic of a solid?

**Answer:** Definite shape and volume

**Question:** What is the primary function of the mitochondria in a cell?

**Answer:** Producing energy through cellular respiration

**Question:** Which of the following is a renewable energy source?

**Answer:** Solar power

**Question:** What is the chemical symbol for gold?

**Answer:** Au

**Question:** In the periodic table, elements in the same group have similar properties because they have the same number of:

**Answer:** Electrons

**Question:** Which of the following is a function of the respiratory system?

**Answer:** Exchanging gases

**Question:** What is the process by which plants make their own food using sunlight?

**Answer:** Photosynthesis

**Question:** Which of the following is an example of a chemical change?

**Answer:** Burning wood

**Question:** What does pH measure in a solution?

**Answer:** Acidity

**Question:** In the water cycle, what process involves water changing from a liquid to a gas?

**Answer:** Evaporation

**Question:** Which organelle is responsible for packaging and transporting proteins within the cell?

**Answer:** Golgi apparatus

**Question:** What is the main function of white blood cells in the human body?

**Answer:** Fighting infections

**Question:** Which of the following is a non-renewable resource?

**Answer:** Natural gas

**Question:** What is the formula for calculating density?

**Answer:** Density = Mass/Volume

**Question:** The Earth's outer layer is divided into several large and small pieces called:

**Answer:** Plates

**Question:** What type of energy is associated with the motion of particles in a substance?

**Answer:** Thermal energy

**Question:** Which gas is most abundant in the Earth's atmosphere?

**Answer:** Nitrogen

**Question:** What is the purpose of the ozone layer in the Earth's atmosphere?

**Answer:** Protect against harmful UV radiation

**Question:** Which planet is known as the 'Red Planet'?

**Answer:** Mars

**Question:** What is the main function of the cerebrum in the human brain?

**Answer:** Processing thoughts and emotions

**Question:** Which of the following is a characteristic of a chemical change?

**Answer:** Change in color

**Question:** What is the role of RNA in protein synthesis?

**Answer:** Carrying amino acids

**Question:** What is the source of energy for most living organisms?

**Answer:** Sunlight

**Question:** What is the process by which plants release water vapor into the atmosphere?

**Answer:** Transpiration

**Question:** Which of the following is a characteristic of a gas?

**Answer:** No definite shape or volume

**Question:** What is the function of the chloroplast in plant cells?

**Answer:** Photosynthesis

**Question:** What is the process by which rocks are broken down into smaller particles by wind, water, or other natural forces?

**Answer:** Weathering

**Question:** Which of the following is an example of a homogeneous mixture?

**Answer:** Saltwater