



GED

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Practice Questions

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1. Solve the given equation for x . $-5x + 17 = 112$

- A. $X = -67$
- B. $X = 19$
- C. $X = 67$
- D. $X = -19$

2. Which is NOT an example of an independent event?

- A. Flipping a single coin 3 times.
- B. Spinning two separate spinners
- C. Drawing 3 cards from a deck without replacing the cards
- D. Rolling a die 2 times

3. A paper bag contains 3 blue marbles, 2 red marbles, 4 green marbles and 1 white marble. Without replacement what is the probability of drawing a red marble on first attempt and green marble on the second attempt?

- A. $2/25$
- B. $3/5$
- C. $4/45$
- D. $29/45$

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4. Determine k so that the point $(-1, k)$ is a solution of $y = -5x + 3$.

- A. $K = -3$
- B. $K = -8$
- C. $K = 3$
- D. $K = 8$



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5. Jackson leased a new car for 3 years. He agreed to pay \$1,900 down and a \$269 payment each month. He also agreed to pay \$0.125 per mile he drove over 30,000 miles. During the 3-year lease period, Jackson drove the car 32,458 miles. Excluding taxes, what was the cost of leasing this car for 3 years?

- A. \$9,991.25
- B. \$5,435.25
- C. \$11,891.25
- D. \$13,741.25

6. When the sum of 1.8912 and 3.1846 is rounded to the nearest hundredth, the result is:

- A. 5.076
- B. 5.1
- C. 5.07
- D. 5.08

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7. The rectangular dining room table is 3.5 feet wide by 8 feet long. What is the perimeter of the table?

- A. 28 feet
- B. 36 feet
- C. 23 feet
- D. 76.5 feet

8. Point X is halfway between points A and B. Point Y is halfway between points C and D. What is the distance between point X and point Y?

- A. 1.75
- B. -1.75
- C. -2.5
- D. 2.5



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**9. Mechanical advantage is a measure of the force amplification that is achieved by using a tool, mechanical device, or machine system. The formula for mechanical advantage is shown below.

A crowbar can be used to remove a nail from a board. If the crowbar has a mechanical advantage of 8, and the a force of 40 Newtons is applied to it, what will be the output force?**

- A. 5 Newtons
- B. 32 Newtons
- C. 0.2 Newtons
- D. 320 Newtons

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**10. Nora makes soup by adding some spices to a pot of boiling water and stirring the spices until completely dissolved. Next, she adds several chopped vegetables.

What is the solute in her mixture?**

- A. Spices
- B. Vegetables
- C. Water
- D. Heat

11. The rate of a chemical reaction depends on all of the following except:

- A. Surface area.
- B. Temperature.
- C. Amount of mass lost.
- D. Presence of catalysts.

12. What causes a solar eclipse?

- A. The moon moves behind the sun, removing its source of light and causing it to temporarily extinguish.
- B. The sun fails to revolve as it should, resulting in a temporary black spot.
- C. The sun falls into a "shadow zone", blocking it from view.
- D. The moon moves between the sun and the Earth, effectively blocking it from view.

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13. Why is deforestation harmful to biodiversity?

- A. It increases land erosion
- B. It removes habitat that wildlife depend on
- C. All are correct
- D. It removes trees that will take a long time to regrow

14. What layer of the atmosphere do we live in?

- A. Hydrosphere
- B. Stratosphere
- C. Troposphere
- D. Ozone

15. In general, which of the following are NOT in the kingdom fungi?

- A. Mushrooms
- B. Yeasts
- C. Molds
- D. White oak

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16. Photosynthesis takes place in which of the following?

- A. Endoplasmic reticulum
- B. Mitochondrion
- C. Chloroplast
- D. Ribosome

17. What is the formula for speed?

- A. Motion divided by force
- B. Distance divided by time
- C. Force times distance
- D. Mass times acceleration

18. In the passage, which characteristic is revealed about Hester as she nurses her baby?

- A. Reluctance
- B. Corruption
- C. Evil
- D. Nervous excitement



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19. Anthony claims that individual states may not make a law against allowing women to vote for what reason?

- A. It would contradict the supreme law of the country.
- B. Most people favor her side of the issue.
- C. It would be a traitorous act.
- D. Women should be allowed to vote.

20. Which of the following options can be inferred from the passage?

- A. Dukkah is an expensive seasoning
- B. Dukkah is only used in Italian dishes
- C. Dukkah is most often used as a dipping sauce
- D. Dukkah does not follow an exact recipe

21. In July 1957, members of a field party from the University of Kansas Natural History Museum, under the direction of Sydney Anderson, spent 12 days collecting vertebrates in the vicinity of Creel in southwestern Chihuahua. Among the specimens were two snakes representing an undescribed species of the genus Geophis. The discovery of a new Geophis species in southern Chihuahua increased the number of species in the genus known to occur in Mexico to 21 and extended the range of the genus by over 500 miles. Geophis aquilonaris is different from all other Mexican representatives of the genus because it has numerous, alternating pale and dark bands on the body and tail. Both sets of bands are in the form of complete rings, or the dark bands are joined ventrally rendering the belly dark.
Which sentence from the paragraph supports the idea that species in the same genus can have unique characteristics?

- A. “The discovery of a new Geophis species in southern Chihuahua increased the number of species in the genus known to occur in Mexico to 21 and extended the range of the genus by over 500 miles.”
- B. “In July, 1957, members of a field party from the University of Kansas Natural History Museum, under the direction of Sydney Anderson, spent 12 days collecting vertebrates in the vicinity of Creel in southwestern Chihuahua.”
- C. “Geophis aquilonaris is different from all other Mexican representatives of the genus because it has numerous, alternating pale and dark bands on the body and tail.”
- D. “Among the specimens were two snakes representing an undescribed species of the genus Geophis.”



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22. Read the **supporting details** then correct the sentence below.
Sentence 8: This was followed by to digits that more closely pinpointed population concentrations and those sectional centers accessible to common transportation networks.
Which of the following changes should be made to correct sentence 8?

- A. Change “that” to “which”
- B. Change “centers” to “center”
- C. Insert a comma after “concentrations”
- D. Change “to digits” to “two digits”

23. The question is based on the passage below.
Notice to All Students
It has come to the attention of the administration that many of you are angered about recent changes to the dormitory curfew policy. As you should be aware, the administration has instituted a temporary curfew for those living in the Walcher Dormitory due to the recent spike in on-campus crime. While we understand the reasons for your concern, we will continue to enforce this curfew as it was described in earlier notices. The details are given again below for clarification:
■ The curfew will be in effect from March 1 – March 31.
■ Students who enter or leave the dormitory between 1:00 a.m. and 5:00 a.m. will be subject to disciplinary action.
■ Students who need to be exempted from the curfew may apply with Dr. Fowler at fowler@university.edu. Exemptions will only be given for students with work responsibilities or health issues. Other than emergency situations, students must have an official curfew exemption form in order to claim an exemption. The administration thanks you for your understanding and patience.
Other than emergency situations, students must have an official curfew form from Dr. Fowler in order to claim an exemption.
The bolded text in the sentence above indicates which of the following?

- A. emphasis
- B. brand names
- C. proper nouns
- D. definitions



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24. The following excerpt is from Federalist 46 written by James Madison in 1788:
“The federal and State governments are in fact but different agents and trustees of the people, constituted with different powers, and designed for different purposes... the powers proposed to be lodged in the federal government are as little formidable to those reserved to the individual States, as they are indispensably necessary to accomplish the purposes of the Union.”
The above excerpt is an example of which of the following concepts?

- A. Checks and Balances.
- B. Federalism.
- C. Separation of Powers.
- D. Natural Rights.

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25. Which correction should be made to sentence (6) in the attached text?

- A. No changes are necessary.
- B. Change "in general" to "generally."
- C. Change "are" after the word "products" to "is"
- D. Change "good" to "well."

26. Noncount nouns are always singular.
Which noun is a noncount noun?

- A. Family
- B. Electricity
- C. Sheep
- D. Fish



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27. Where should the following sentence be placed in the paragraph below? Many people have proposed explanations for this drop.
1] Surveys of criminal activity in the United States have shown that the 1990s marked a significant drop in crimes such as vehicle theft, rape, and murder.
2] Economist Rick Nevin argues that one contributing factor is the ban on lead gasoline in the 70s because lead poisoning in children has been linked with criminal behavior later in life.
3] Other theories include the controversial claim that legalizing abortion has led to fewer unwanted children and, as a result, fewer potential criminals.
4] Some politicians, including Rudy Giuliani, even take personal responsibility, identifying their policies as effective deterrents to crime.

- A. After sentence 1
- B. After sentence 3
- C. After sentence 4
- D. After sentence 2

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28. A system of mountains in eastern North America
Which region is it?

- A. Pacific West
- B. Rocky Mountains
- C. It's not clear
- D. Appalachian Mountains



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29. A court of original jurisdiction has the authority to conduct the original trial of a case. This court is called the trial court. A court with appellate jurisdiction has the authority to hear an appeal of a case decided by a trial court. This court is called the appeals court. An appeals court does not conduct a new trial; instead it reviews the record of the trial and rules on whether or not the trial was conducted fairly and the law applied correctly.

U.S. FEDERAL COURT SYSTEM

Court	Original Jurisdiction	Appellate Jurisdiction
U.S. Supreme Court	Lawsuits between two state governments	Cases appealed from U.S. Court of Appeals and cases appealed from state supreme courts
U.S. Courts of Appeals	None	Cases appealed from U.S. District Courts
U.S. District Courts	Cases involving federal law or the U.S. Constitution	None

What court would conduct the trial in case in which the federal government charges a company with violating federal pollution regulations?

- A. A state trial court in the state in which the violation occurred
- B. A state supreme court
- C. A U.S. District Court
- D. The U.S. Supreme Court

30. What is the name of the civil rights demonstration that drew 200,000 people to the National Mall in 1963?

- A. Montgomery Bus Boycott
- B. March on Selma
- C. March on Washington
- D. Freedom Riders



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Answer Key & Explanations

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1. D — $X = -19$

On the left, an order of operations demands that we first multiply x by -5 , then add 17 . To solve this equation for x , we must “undo” each of these operations in an inverse order. Thus, we will first subtract 17 from both sides of the equation, then divide both sides of the resulting equation by -5 .

Original equation.
 $-5x + 17 = 112$
 To “undo” adding 17 , subtract 17 from both sides of the equation.
 $-5x + 17 - 17 = 112 - 17$
 Simplify both sides.
 $-5x = 95$
 To “undo” multiplying by -5 , divide both sides of the equation by -5 .
 $x = -19$.

2. C — Drawing 3 cards from a deck without replacing the cards

Not replacing the card makes the next draw dependent on the previous draw because there is always 1 less card in the deck.

3. C — $\frac{4}{45}$

On the first draw there are 10 marbles therefore the probability is getting a red is $\frac{2}{10}$ or $\frac{1}{5}$. On the second draw there are 9 marbles the probability of getting a green is $\frac{4}{9}$. The events are independent thus multiply the two probabilities to determine first ball is red and second is green. $\frac{1}{5} * \frac{4}{9} = \frac{4}{45}$.

4. D — $K = 8$

Substitute $(x, y) = (-1, k)$ into the equation $y = -5x + 3$.
 Original equation.
 $y = -5x + 3$
 Substitute: -1 for x , k for y .
 $k = -5(-1) + 3$
 Multiply: $-5(-1) = 5$.
 $k = 5 + 3$
 Add: $5 + 3 = 8$.
 $k = 8$
 Thus, $k = 8$.

5. C — \$11,891.25

Add the three costs: down payment (\$1,900), total monthly payments and mileage over 30,000 to get \$11,891.25.

6. D — 5.08

First, add the two values together without rounding.
 $1.8912 + 3.1846 = 5.0758$
 Next, round to the nearest hundredth, which is two decimal places. Since the 5 digit in the thousandths place indicates that you need to round up, the correct answer is 5.08.

7. C — 23 feet

The perimeter of the table is the distance around it. Thus, the perimeter equals 3.5 feet + 8 feet + 3.5 feet + 8 feet, or 23 feet.

8. D — 2.5

Find the midpoint between A and B then find the midpoint between C and D then evaluate the absolute value of their difference to find the distance from point Y to Z.

Halfway between A and B:
 -1.75
 Halfway between C and D: 0.75
 The absolute value of the difference between them:
 $= |-1.75 - 0.75| = |-2.5| = 2.5$.



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**9. D — 320 Newtons**

The question provides the mechanical advantage and the input force. The first step is to plug these numbers into the equation:
$$\text{MA} = \frac{\text{Output Force}}{\text{Input Force}}$$

To solve this, multiply each side by 40:
$$8 \times 40 = \text{Input Force} \times 40$$

$$320 = \text{Input Force} \times 40$$

$$\frac{320}{40} = \frac{\text{Input Force} \times 40}{40}$$

$$8 = \text{Input Force}$$

10. A — Spices

A solute is a substance that is dissolved in another substance. In this case, the solute is the spices.

11. C — Amount of mass lost.

The rate at which a chemical reaction occurs does not depend on the amount of mass lost, since the law of conservation of mass (or matter) states that in a chemical reaction there is no loss of mass.

12. D — The moon moves between the sun and the Earth, effectively blocking it from view.

The sun is not prone to shadows, and cannot be blocked from view by a shadow. Similarly, the sun does not derive its light from another source; it is its own source of light. The sun is a fixed spot; the Earth revolves around it. An eclipse is caused by the moon temporarily moving between the Earth and the sun, blocking it from view for a time.

13. C — All are correct

Some of the trees in these forests are hundreds of years old and will not regenerate even within your lifetime. Forests provide habitat for numerous animals, prevent soil erosion, and take in carbon dioxide, all of which are threatened with deforestation.

14. C — Troposphere

The *troposphere* is the first layer. It makes up 75% of the mass of all the layers and is where humans and animals live.

15. D — White oak

White oak is considered the most majestic tree of the eastern hardwoods and it belongs to the kingdom Plantae.

16. C — Chloroplast

Photosynthesis takes place in a chloroplast. Cellular respiration takes place in a mitochondrion.

17. B — Distance divided by time

The formula for speed is distance/time. For example, if you drove 100 miles over the course of 2 hours, you would have driven at a speed of 50 miles per hour (100/2).

18. D — Nervous excitement

This is the only answer supported by the passage, which explicitly states that Hester shows “nervous excitement.”

19. C — It would be a traitorous act.

The argument is clearly made in the passage that for states to take away something the nation has already granted would be illegal.

20. D — Dukkah does not follow an exact recipe

This option is inferred to in the first sentence of the second paragraph, as it states that there is no exact science to making dukkah. You may have thought that the correct answer was that it was most often used as a dipping sauce, but the passage only briefly states this, along with other methods of using it; therefore, it



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cannot be inferred that it is mostly used as a dipping sauce.

21. C — “Geophis aquilonaris is different from all other Mexican representatives of the genus because it has numerous, alternating pale and dark bands on the body and tail.”

The passage ends with the comparison of the newly discovered species of the genus *Geophis*. The word ‘different’ indicates that this species is unique from other species in the same genus, and the sentence continues to describe why: the snake has unique band markings on its body and tail. None of the other sentences discuss the specifics of why this particular species can be unique to other species in the same genus.

22. D — Change “to digits” to “two digits”

In order to correct sentence 8, you should change “to digits” to “two digits.” The sentence is requiring the use of the number 2, which is spelled two, not to. The sentence does not require a comma after “concentrations” to make it grammatically correct. The pronoun “that” is used correctly, as it refers to “digits” in a restrictive clause (not set off with commas). The plural form of “centers” is used correctly to refer to multiple locations.

23. A — emphasis

Underlining words in a text is a way to show emphasis. The underlined words are important and the line draws attention to them.

24. B — Federalism.

Federalism is the form of government employed in the United States in which central and state governments are part of one system. The US Constitution divides the powers by specifically granting some powers to the national government and granting other powers to the states.

25. C — Change "are" after the word "products" to "is"

The subject of the sentence is "quality," not "products." As such, it is a singular noun and requires a singular verb.

26. B — Electricity

"Electricity" is a non-count noun. A noun is non count if it cannot be counted. Since they cannot be counted, it would be incorrect to make them plural or talk about them with number words.

27. A — After sentence 1

The sentence, “Many people have proposed explanations for this drop,” provides an introduction to the short explanations that follow. It should come after the first sentence.

28. D — Appalachian Mountains

The Appalachian Mountains often called the Appalachians, are a system of mountains in eastern North America.

29. C — A U.S. District Court

The U.S. District Courts (of which there are 94) have original jurisdiction and conduct trials in cases involving federal laws and regulations. State supreme courts, choice C, do not have original jurisdiction and cannot conduct trials. The Supreme Court, choice B, has original jurisdiction only in special cases. State trial courts, choice A, generally take cases involving state laws, not federal laws.

30. C — March on Washington

The March on Washington was the largest public demonstration ever held in Washington DC. Over 200,000



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people came to the National Mall to show their support for the Civil Rights Movement in 1963.



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