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**Question 1:**

If a certain wheel turns at a constant rate of  $x$  revolutions per minute, how many revolutions will the wheel make in  $k$  seconds?

- (A)  $60kx$
- (B)  $kx$
- (C)  $x/k$
- (D)  $x/(60k)$
- (E)  $kx/60$

**Correct Answer:**

(E)  $kx/60$

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**Question 2:**

Solve for  $x$ :  $2x - 5 = 3(x + 1)$

- (A) 0
- (B) 1
- (C) 2
- (D) 3

**Correct Answer:**

(C) 2

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**Question 3:**

A car travels at a speed of 60 miles per hour. How far will the car travel in 45 minutes?

- (A) 45 miles



(B) 50 miles

(C) 55 miles

(D) 60 miles

**Correct Answer:**

(A) 45 miles

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**Question 4:**

If  $4x + 3 = 19$ , what is the value of  $x$ ?

(A) 2

(B) 3

(C) 4

(D) 5

**Correct Answer:**

(C) 4

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**Question 5:**

A store sells 12 pens for

(15. How much will 30 pens cost at the same rate?

(A)

)30

(B)

(35

(C)

)37.50

(D)

(40



**Correct Answer:**

(C)

)37.50

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**Question 6:**

If  $x^2 - 9 = 0$ , what is the value of x?

(A) 3

(B) -3

(C) 3 or -3

(D) 9

**Correct Answer:**

(C) 3 or -3

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**Question 7:**

A recipe calls for 4 cups of flour. If a baker wants to make half the recipe, how many cups of flour will be needed?

(A) 1 cup

(B) 2 cups

(C) 3 cups

(D) 4 cups

**Correct Answer:**

(B) 2 cups

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**Question 8:**

If  $3x + 7 = 19$ , what is  $x$ ?

(A) 4

(B) 3

(C) 2

(D) 1

**Correct Answer:**

(A) 4

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**Question 9:**

What is the average of the following numbers: 10, 12, 14, 18, and 20?

(A) 14

(B) 15

(C) 16

(D) 17

**Correct Answer:**

(C) 16

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**Question 10:**

Solve for  $y$ :  $3y - 5 = 10$

(A) 3

(B) 5

(C) 6

(D) 7

**Correct Answer:**



(B) 5

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**Question 11:**

**What is the sum of 75, 100, and 125?**

(A) 200

(B) 300

(C) 400

(D) 500

**Correct Answer:**

(B) 300

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**Question 12:**

**If  $2x - 3 = 9$ , what is the value of  $x$ ?**

(A) 3

(B) 4

(C) 5

(D) 6

**Correct Answer:**

(D) 6

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**Question 13:**

**If  $x + 4 = 7$ , what is  $x$ ?**

(A) 1



(B) 2

(C) 3

(D) 4

**Correct Answer:**

(C) 3

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**Question 14:**

A farmer sells apples at

(2 per apple. How much would 24 apples cost?

(A)

)36

(B)

(40

(C)

)42

(D)

(48

**Correct Answer:**

(D)

)48

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**Question 15:**

Solve for x:  $3x + 2 = 11$

(A) 2

(B) 3

(C) 4

(D) 5



**Correct Answer:**

(B) 3

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**Question 16:**

**If a shirt costs**

**(30 after a 20% discount, what was the original price?**

(A)

)36

(B)

(37.50

(C)

)38

(D)

(40

**Correct Answer:**

(B)

)37.50

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**Question 17:**

**If the total cost of 5 pencils and 3 erasers is**

**(3.75, and the total cost of 4 pencils and 5 erasers is**

**)3.50, what is the price of one pencil?**

(1) The price of an eraser is

(0.25.

(2) The price of 5 pencils and 3 erasers is

)3.75.

(A) Statement (1) alone is sufficient.



(B) Statement (2) alone is sufficient.

(C) Both statements together are sufficient.

(D) Each statement alone is not sufficient.

**Correct Answer:**

(C) Both statements together are sufficient.

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**Question 18:**

If a car travels 180 miles at a constant speed of 60 miles per hour, how many hours did the car travel?

(A) 2 hours

(B) 3 hours

(C) 4 hours

(D) 5 hours

**Correct Answer:**

(B) 3 hours

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**Question 19:**

Solve for x:  $5x - 8 = 7$

(A) 1

(B) 2

(C) 3

(D) 4

**Correct Answer:**

(C) 3

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**Question 20:**

A box contains 12 red balls and 18 blue balls. If a ball is selected at random, what is the probability that it is red?

(A)  $\frac{2}{5}$

(B)  $\frac{3}{5}$

(C)  $\frac{1}{2}$

(D)  $\frac{1}{3}$

**Correct Answer:**

(A)  $\frac{2}{5}$

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**Question 21:**

What is the value of x if  $2x - 4 = 10$ ?

(A) 7

(B) 6

(C) 5

(D) 4

**Correct Answer:**

(A) 7

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**Question 22:**

Solve for x:  $3x = 15$

(A) 2

(B) 3

(C) 4

(D) 5



**Correct Answer:**

(D) 5

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**Question 23:**

A bus travels 40 miles per hour for 2 hours. How far does it travel?

(A) 70 miles

(B) 80 miles

(C) 90 miles

(D) 100 miles

**Correct Answer:**

(B) 80 miles

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**Question 24:**

Is the integer  $x$  even?

(1)  $x + 1$  is odd.

(2)  $x$  is an integer greater than 1.

(A) Statement (1) alone is sufficient to answer the question.

(B) Statement (2) alone is sufficient to answer the question.

(C) Both statements together are sufficient to answer the question.

(D) Each statement alone is not sufficient to answer the question.

**Correct Answer:**

(A) Statement (1) alone is sufficient to answer the question.

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**Question 25:**

A total of 180 students attended a concert. Of these, 60 students were under 18 years old, 40 were between 18 and 25 years old, and the remaining students were over 25 years old. How many students were over 25 years old?

- (A) 60
- (B) 80
- (C) 100
- (D) 120

**Correct Answer:**

(B) 80

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**Question 26:**

If  $2x + 5 = 17$ , what is  $x$ ?

- (A) 6
- (B) 5
- (C) 4
- (D) 3

**Correct Answer:**

(A) 6

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**Question 27:**

Economic recessions are often seen as negative events that disrupt national economies. However, some economists argue that recessions can be beneficial in the long term. They can encourage businesses to become more efficient and help reduce inflation." Which of the following is the main idea of the passage?

- (A) *Recessions are harmful to national economies.*
- (B) *Some economists believe recessions may have positive effects.*



*(C) Inflation is caused by recessions.*

*(D) Businesses become more efficient during recessions.*

**Correct Answer:**

(B) Some economists believe recessions may have positive effects.

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**Question 28:**

A study suggests that a new drug will help reduce symptoms of a certain illness. Which of the following, if true, would most strengthen the study's conclusion?

*(A) The drug has been tested on a large group of patients.*

*(B) The drug is expensive to produce.*

*(C) Other drugs for the illness have shown no improvements.*

*(D) The drug can cause some side effects.*

**Correct Answer:**

(A) The drug has been tested on a large group of patients.

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**Question 29:**

"The new law mandates a reduction in carbon emissions by 20% over the next decade. This has led to protests from various industries that rely heavily on fossil fuels, citing potential job losses and economic hardship." Which of the following can be inferred from the passage?

*(A) The law will have no impact on fossil fuel industries.*

*(B) The reduction in emissions will create new jobs in other sectors.*

*(C) Industries relying on fossil fuels are resistant to the new law.*

*(D) The new law was universally accepted.*

**Correct Answer:**

(C) Industries relying on fossil fuels are resistant to the new law.

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**Question 30:**

**A recent study claims that reading books increases intelligence. Which of the following would most weaken the argument?**

- (A) People who read regularly tend to perform better academically.*
- (B) Intelligence is influenced by many factors, not just reading.*
- (C) Reading improves memory, which is linked to intelligence.*
- (D) The study focused on young children only.*

**Correct Answer:**

(D) The study focused on young children only.

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**Question 31:**

**The rise of digital communication has changed the way businesses operate. Companies now rely on email, instant messaging, and video calls to communicate internally and externally, creating new efficiencies but also new challenges." Based on the passage, how should companies address the challenges of digital communication?**

- (A) By reverting to traditional methods of communication.*
- (B) By implementing new technologies and tools.*
- (C) By discouraging digital communication.*
- (D) By focusing only on internal communication.*

**Correct Answer:**

(B) By implementing new technologies and tools.

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**Question 32:**

**A company claims that its employees work better when they have flexible hours. Which of the following, if true, would most reveal a flaw in the company's reasoning?**



- (A) Employees with flexible hours often complete their work early.*
- (B) Employees in different departments work different hours.*
- (C) The company has not conducted studies comparing flexible hours to standard hours.*
- (D) The company's employees value flexibility.*

**Correct Answer:**

(C) The company has not conducted studies comparing flexible hours to standard hours.

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### Question 33:

(The following is based on material written in 1996.) The Montreal Protocol on Substances That Deplete the Ozone Layer... signed in 1987 by more than 150 nations, has attained its short-term goals: it has decreased the rate of increase in amounts of most ozone-depleting chemicals reaching the atmosphere and has even reduced the atmospheric levels of some of them. The projection that the ozone layer will substantially recover from ozone depletion by 2050 is based on the assumption that the protocol's regulations will be strictly followed. Yet there is considerable evidence of violations, particularly in the form of the release of ozone-depleting chlorofluorocarbons (CFCs), which are commonly used in the refrigeration, heating, and air-conditioning industries. These violations reflect industry attitudes; for example, in the United States, 48% of respondents in a recent survey of subscribers to Air Conditioning, Heating, and Refrigeration News, an industry trade journal, said that they did not believe that CFCs damage the ozone layer. Moreover, some in the industry apparently do not want to pay for CFC substitutes, which can run five times the cost of CFCs. Consequently, a black market in imported illicit CFCs has grown. Estimates of the contraband CFC trade range from 10,000 to 22,000 tons a year, with most of the CFCs originating in India and China, whose agreements under the protocol still allow them to produce CFCs. In fact, the United States Customs Service reports that CFC-12 is a contraband problem second only to illicit drugs.

...The passage suggests which of the following about the illicit trade in CFCs?

- (A) It would cease if manufacturers in India and China stopped producing CFCs.*
- (B) Most people who participate in such trade do not believe that CFCs deplete the ozone layer.*
- (C) It will probably surpass illicit drugs as the largest contraband problem faced by the United States Customs Service.*
- (D) It is fostered by people who do not want to pay the price of CFC substitutes.*
- (E) It has grown primarily because of the expansion of the refrigeration, heating, and air-conditioning industries in foreign countries.*

**Correct Answer:**



(D) It is fostered by people who do not want to pay the price of CFC substitutes.

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#### Question 34:

A study shows that employees who work from home tend to be more productive. A company is considering allowing employees to work from home at least three days a week. Which of the following, if true, would most strengthen the company's argument?

(A) *The study was conducted in a similar industry to the company's.*

(B) *Employees who work from home tend to take more breaks.*

(C) *The company's employees have been reporting high levels of job satisfaction.*

(D) *The study shows that productivity levels decline after employees work from home for more than three days a week.*

#### Correct Answer:

(A) The study was conducted in a similar industry to the company's.

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#### Question 35:

Over the past century, human civilization has seen dramatic shifts in urbanization. Cities have grown larger, and more people have moved to urban areas for better access to education, jobs, and healthcare. However, this rapid growth has created challenges such as overcrowding, pollution, and strain on infrastructure." Based on the passage, which of the following statements is most supported by the author's argument?"

(A) *Urbanization has had only negative consequences for society.*

(B) *More people are moving to urban areas due to the lack of rural opportunities.*

(C) *Urbanization has both positive and negative consequences.*

(D) *Urbanization is likely to decrease in the near future.*

#### Correct Answer:

(C) Urbanization has both positive and negative consequences.

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**Question 36:**

The director of a museum claims that visitors will be more likely to attend an exhibition if it is promoted through social media. Which of the following assumptions is necessary for the director's claim to be valid?

- (A) *People who use social media are more likely to visit the museum.*
- (B) *Social media promotions are always effective.*
- (C) *The exhibition is of interest to a broad audience.*
- (D) *People visit museums primarily because of social media posts.*

**Correct Answer:**

- (A) People who use social media are more likely to visit the museum.

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**Question 37:**

According to the passage [from question 32], which of the following best describes most ozone-depleting chemicals in 1996 as compared to those in 1987?

- (A) *The levels of such chemicals in the atmosphere had decreased*
- (B) *The number of such chemicals that reached the atmosphere had declined*
- (C) *The amounts of such chemicals released had increased but the amounts that reached the atmosphere had decreased*
- (D) *The rate of increase in amounts of such chemicals reaching the atmosphere had decreased.*
- (E) *The rate at which such chemicals were being reduced in the atmosphere had slowed.*

**Correct Answer:**

- (D) The rate of increase in amounts of such chemicals reaching the atmosphere had decreased.

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**Question 38:**

Is the number  $x$  even?



(1)  $x + 1$  is odd.

(2)  $x$  is greater than 0.

(A) Statement (1) alone is sufficient.

(B) Statement (2) alone is sufficient.

(C) Both statements together are sufficient.

(D) Each statement alone is not sufficient.

**Correct Answer:**

(A) Statement (1) alone is sufficient.

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**Question 39:**

A store sells a hat for

(20 and a scarf for

)15. A customer buys both. What is the total cost after a 10% discount on the hat?

(A)

(30

(B)

)31

(C)

(32

(D)

)33

**Correct Answer:**

(D)

(33

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**Question 40:**



What is the monthly rent for a certain apartment?

(1) The monthly rent per person for 4 people to share the rent for the apartment is (375.

(2) The monthly rent per person for 4 people to share the rent of the apartment is )125 less than the monthly rent per person for 3 people to share the rent.

- (A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.
- (B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.
- (C) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.
- (D) EACH statement ALONE is sufficient.
- (E) Statements (1) and (2) TOGETHER are NOT sufficient

Correct Answer:

(D) EACH statement ALONE is sufficient.

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Question 41:

According to the table shown, the estimated number of home-schooled students in State A is approximately what percent greater than the number in State D ?

\begin{tabular}{ l l }	
\hline	
State & Number (in thousand)	
\hline	
A &	181
\hline	
B &	125
\hline	
C &	103
\hline	
D &	79
\hline	
E &	72
\hline	



$\end{tabular}$

- (A) 25%
- (B) 55%
- (C) 100%
- (D) 125%
- (E) 155%

**Correct Answer:**

(D) 125%

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**Question 1:**

If a certain wheel turns at a constant rate of  $x$  revolutions per minute, how many revolutions will the wheel make in  $k$  seconds?

- (A)  $60kx$
- (B)  $kx$
- (C)  $x/k$
- (D)  $x/(60k)$
- (E)  $kx/60$

**Correct Answer:**

(E)  $kx/60$

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**Question 2:**

Solve for  $x$ :  $2x - 5 = 3(x + 1)$

- (A) 0
- (B) 1
- (C) 2
- (D) 3

**Correct Answer:**

(C) 2

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**Question 3:**



A car travels at a speed of 60 miles per hour. How far will the car travel in 45 minutes?

(A) 45 miles

(B) 50 miles