

Question 1 of 37

Question: 1

My diet requires me to lose 528 grams over 1 year. After 3 months, I've lost 125. How many grams am I overweight by?

Possible Answers

Selected Possible Answer

- 5
- 1
- 4
- 7
- 11

Question: 2

Find the sum of the prime numbers between 35 and 45.

Possible Answers

Selected Possible Answer

- 80
- 121
- 119
- 137
- 160

Question: 3

How much is $\frac{1}{3}$ of x ?

1. 10 percent of x is 5
2. 5 percent of $2x$ is 7.5.

Possible Answers

Selected Possible Answer

- Statement 1 is sufficient alone
- Statement 2 is sufficient alone

- Together the statements are sufficient
- Each statement is sufficient alone
- Together, the statements are not sufficient

Question: 4

Two rectangles have the same area. One rectangle has dimensions 16×28 . The second has dimensions $7 \times W$. Find W .

Possible Answers

Selected Possible Answer

- 16
- 32
- 64
- 14
- 49

Question: 5

Is x greater than 0.2?

1. x is greater than $\frac{3}{33}$
2. x is less than $\frac{3}{11}$

Possible Answers

Selected

Possible Answer

- Statement A is sufficient alone
- Statement B is sufficient alone
- Both statements together are sufficient
- Alone, each statement is sufficient
- Together the statements are still insufficient

Question: 6

What's the value of angle D of parallelogram $ABCD$?

1. Angle B , the opposite angle, is 60 degrees.
2. The length of side AD is 20.

Possible Answers

- | Selected | Possible Answer |
|-----------------------|---|
| <input type="radio"/> | Statement 1 is sufficient alone |
| <input type="radio"/> | Statement 2 is sufficient alone |
| <input type="radio"/> | Together, the statements are sufficient |
| <input type="radio"/> | Each statement is sufficient on its own |
| <input type="radio"/> | Together, the statements are still insufficient |

Question: 7

What's the probability that a random person selected from a group is male?

1. There are 10 males in the group.
2. A quarter of the group are not female.

Possible Answers

- | Selected | Possible Answer |
|-----------------------|--|
| <input type="radio"/> | Statement 1 is sufficient alone |
| <input type="radio"/> | Statement 2 is sufficient alone |
| <input type="radio"/> | Together, the statements are sufficient |
| <input type="radio"/> | Each statement is sufficient on its own |
| <input type="radio"/> | Together the statements are insufficient |

Question: 8

Find $(\sqrt{7} + \sqrt{7})^2 - (\sqrt{4} + \sqrt{4})^2$.

Possible Answers

- | Selected | Possible Answer |
|-----------------------|------------------------|
| <input type="radio"/> | 8 |
| <input type="radio"/> | 12 |
| <input type="radio"/> | 16 |
| <input type="radio"/> | 24 |
| <input type="radio"/> | 28 |

Question: 9

The average of 10 numbers is 7.4, while the average of the other 8 numbers in my set is 6.5. What's the average of the entire set, rounded to one decimal?

Possible Answers

Selected Possible Answer

- 6.8
- 6.9
- 7.0
- 7.1
- 7.2

Question: 10

Is x positive?

1. $8x$ is greater than $18x$.
2. $x - 4$ is negative.

Possible Answers

Selected

Possible Answer

- Statement 1 is sufficient alone
- Statement 2 is sufficient alone
- Together the statements are sufficient
- Each statement is sufficient on its own
- Together the statements are still insufficient

Question: 11

a and b are integers. Is $a + b$ even?

1. $a = b$
2. $2a - 2b = 0$.

Possible Answers

Selected

Possible Answer

- Statement 1 is sufficient alone
- Statement 2 is sufficient alone
- Together the statements are sufficient

- Each statement is sufficient alone
- Together the statements are still insufficient

Question: 12

In a circle, I draw 2 radii with a an angle of 120 between them. If I shade the area between the radii (with the angle in the shade), what fraction of the circle is not unshaded?

Possible Answers

Selected Possible Answer

- $1/\pi$
- $1/3$
- $1/4\pi$
- $1/3\pi$
- $2/3$

Question: 13

a, b and c are not zero. What's the value of bc?

1. $a^2b^2c^2 = 18a^2bc$
2. $\frac{2a}{b} = \frac{108ac}{6}$

Possible Answers

- | Selected | Possible Answer |
|-----------------------|--|
| <input type="radio"/> | Statement 1 is sufficient alone |
| <input type="radio"/> | Statement 2 is sufficient alone |
| <input type="radio"/> | Together the statements are sufficient |
| <input type="radio"/> | Each statement is sufficient on its own |
| <input type="radio"/> | Together the statements are still insufficient |

Question: 14

N is divisible by 5, 6, and 7. Which of these must N be disivable by as well?

Possible Answers

Selected Possible Answer

- 27
- 105
- 140
- 165
- 420

Question: 15

Is triangle ABC isocoles?

1. Angle B = 60 degrees
2. Angle C = 60

Possible Answers

- | Selected | Possible Answer |
|-----------------------|--|
| <input type="radio"/> | Statement 1 is sufficient alone |
| <input type="radio"/> | Statement 2 is sufficient alone |
| <input type="radio"/> | Together, both statements are sufficient |
| <input type="radio"/> | Each statement is sufficient on its own |
| <input type="radio"/> | Together the statements are still insufficient |

Question: 16

Which of the values for C will give a greatest value for A, if $A = 555 + 111B - 222C$?

Possible Answers

- | Selected | Possible Answer |
|-----------------------|------------------------|
| <input type="radio"/> | 2 |
| <input type="radio"/> | 1/111 |
| <input type="radio"/> | 0 |
| <input type="radio"/> | 1/222 |
| <input type="radio"/> | - 2 |

Question: 17

Runner A is twice as fast as Runner B. If runner B takes 10 minutes to run 5 km, how long will it take runner A to run 15 km (in minutes)?

Possible Answers

Selected Possible Answer

- 3.333
- 10
- 15
- 30

Question: 18

On a coordinate grid, does line L pass through (3,3)?

1. Line L passes through (1,1).
2. Line L passes through (4,4).

Possible Answers

- | Selected | Possible Answer |
|-----------------------|--|
| <input type="radio"/> | Statement 1 is sufficient alone |
| <input type="radio"/> | Together the statements are sufficient |
| <input type="radio"/> | Together the statements are not sufficient |

Question: 19

Are Lines L1 and L2 parallel?.

1. Lines L1 and L2 have different y-intercepts
2. Line R is perpendicular to both L1 and L2

Possible Answers

- | Selected | Possible Answer |
|-----------------------|--|
| <input type="radio"/> | Statement 1 is sufficient alone |
| <input type="radio"/> | Statement 2 is sufficient alone |
| <input type="radio"/> | Each statement is sufficient on its own |
| <input type="radio"/> | Together the statements are not sufficient |

Question: 20

My set of distinct integers consists of 3, 4, 5, and 6. If I add the numbers N and 8 to the set and I want to median to stay the same, what must my number N be equal?

Possible Answers

Selected Possible Answer

- 1
- 4.5
- 7
- 1 or 2

Question: 21

Does k equal j?

1. jk is negative
2. $j + k = 0$

Possible Answers

Selected

Possible Answer

- Statement 1 is sufficient alone
- Statement 2 is sufficient alone
- Each statement is sufficient alone
- Together the statements are still insufficient

Question: 22

A square has a diagonal of 60 feet (it's big). What's the diameter of the square approximately?

Possible Answers

Selected Possible Answer

- 80
- 120
- 160
- 170
- 185

Question: 23

The ratio of snakes to pineapples is 1:4. If there are 6 more snakes and 2 less pineapples, the ratio would be 3:10. How many pineapples are there?

Possible Answers

Selected Possible Answer

- 33
- 64
- 76
- 132

Question: 24

Is $\frac{150}{p}$ an integer?
1. p is less than 8
2. p is a prime number

Possible Answers

- | Selected | Possible Answer |
|-----------------------|--|
| <input type="radio"/> | Statement 1 is sufficient alone |
| <input type="radio"/> | Statement 2 is sufficient alone |
| <input type="radio"/> | Together the statements are sufficient |
| <input type="radio"/> | Each statement is sufficient alone |
| <input type="radio"/> | Together the statements are still insufficient |

Question: 25

In a hockey league there are 10 teams. Each team plays every other team once. If we can play 5 games every week, how many weeks long is one season?

Possible Answers

Selected Possible Answer

- 8
- 9
- 18

20

Question: 26

Which of the following has value that's closest to 1?

Possible Answers

Selected Possible Answer

- 1.25
- $\frac{9}{10}$
- $\frac{1}{2}$
- $|- \frac{14}{15}|$
- $|- 1.1|$

Question: 27

Is A a prime number?

1. A is even
2. Ignoring A, A has no other factors that are even.

Possible Answers

- | Selected | Possible Answer |
|-----------------------|--|
| <input type="radio"/> | Statement 1 is sufficient alone |
| <input type="radio"/> | Statement 2 is sufficient alone |
| <input type="radio"/> | Together the statements are sufficient |
| <input type="radio"/> | Each statement is sufficient on its own |
| <input type="radio"/> | Together the statements are still insufficient |

Question: 28

A bowl has some goldfish, some codsifh, and some fishfish. How many fish are in the bowl?

1. The probability is choosing a goldfish is $\frac{1}{2}$. There are 5 fishfish in the bowl.

Possible Answers

Selected	Possible Answer
-----------------	------------------------

- Statement 1 is sufficient alone
- Statement 2 is sufficient alone
- The statements are only sufficient together
- Each statement is sufficient alone
- Together the statements are still insufficient

Question: 29

The ratio between the radius of circle X and the diameter of circle Y is 1:4. What's the ratio between the area of circle X and the area of circle Y?

Possible Answers

Selected Possible Answer

- 1:16
- 4:8
- 1:4
- 1:2
- 1:8

Question: 30

A line passes through (0, 5) has a slope parallel to $y = x + 10$. Which of the following points would the line pass through?

Possible Answers

Selected Possible Answer

- (-7, -2)
- (3, 10)
- (8, 3)
- (4, 9)
- (10, 0)

Question: 31

Find the value of $7x + 22$

1. $x^2 + 5x - 6 = 0$

2. $x^2 + 12x + 36 = 0$

Possible Answers

- | Selected | Possible Answer |
|-----------------------|--|
| <input type="radio"/> | Statement 1 is sufficient alone |
| <input type="radio"/> | Statement 2 is sufficient alone |
| <input type="radio"/> | The statements are only sufficient together |
| <input type="radio"/> | Each statement is sufficient on its own |
| <input type="radio"/> | Together the statements are still insufficient |

Question: 32

Where is the monkey?

1. The monkey is behind door x , where $7x - 5 = 9$.

2. The monkey is behind door y , where $2^{y+3} = 4^{\frac{5}{2}}$.

Possible Answers

- | Selected | Possible Answer |
|-----------------------|--|
| <input type="radio"/> | Statement 1 is sufficient alone |
| <input type="radio"/> | Statement 2 is sufficient alone |
| <input type="radio"/> | Together the statements are sufficient |
| <input type="radio"/> | Each statement is sufficient alone |
| <input type="radio"/> | Together the statements are insufficient |

Question: 33

There are 5 monkeys on an island. Each monkey has a boat. Each monkey take his boat and tries to get off the island. If the probability of each boat sinking is $1/4$, what is the probability that all monkeys make it safely back except for King Kong who took the S.S. Banana, approximately?

Possible Answers

- | Selected | Possible Answer |
|-----------------------|------------------------|
| <input type="radio"/> | 1/5 |
| <input type="radio"/> | 81/1024 |

- 1/4
- 81/256
- 3/5

Question: 34

Find x if $2^{y+3} = 4^{\frac{5}{2}}$.

Possible Answers

Selected Possible Answer

- 7
- 0, 7
- 0, -6, 7
- 0, -6
- 0, 3, 7

Question: 35

What's the distance between the school and the library?

1. The school is 4 km from the church
2. The library is 3 km from the Church.

Possible Answers

Selected

Possible Answer

- Statement 1 is sufficient on its own
- Statement 2 is sufficient alone
- Together the statements are sufficient
- Each statement is sufficient on its own
- Together the statements are still insufficient

Question: 36

What's the average grade Mark recieved on his report card?

1. 30% of his grades were 80 and 70% were 70.
2. He got 6 grades of 80.

Possible Answers

- | Selected | Possible Answer |
|-----------------------|--|
| <input type="radio"/> | Statement 1 is sufficient alone |
| <input type="radio"/> | Statement 2 is sufficient alone |
| <input type="radio"/> | The statements are only sufficient together |
| <input type="radio"/> | Each statement is sufficient on its own |
| <input type="radio"/> | Together the statements are still insufficient |

Question: 37

A train leaves London at 5 AM, and a train leaves Paris an hour later. If the two trains pass each other right in the middle of the journey, and the distance between London and Paris is 400 km, and the speed of the London train is 60 km/h, find the speed of the Paris train.

Possible Answers

- | Selected | Possible Answer |
|-----------------------|------------------------|
| <input type="radio"/> | 45 km/hr |
| <input type="radio"/> | 56 km/hr |
| <input type="radio"/> | 75 km/hr |
| <input type="radio"/> | 86 km/hr |
| <input type="radio"/> | 90 km/hr |