Question: 1

Is my shape a rhombus?
1. My shape is a rectangle.
2. My shape is a square

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: 2

A fish moves in a path set by the equation $D = t^3 - 5t + 4$. If the value of D is 2, what can be a value of t?

Possible Answers

Selected	Possible Answer
○	- 2
○	-1
○	0
○	1
○	2

Question: 3

Find x if $\frac{4}{x} = 5 - \frac{1}{x}$.

Possible Answers

Selected	Possible Answer
○	1
○	1, – 1
○	4/5

- 1
- 4/5, – 4/5

Question: 4

Is S the square of an integer?
1. S^2 is the square of an integer.
2. $S^{\frac{1}{2}}$ is the square of an integer.

Possible Answers

Selected **Possible Answer**

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

Question: 5

N is an integer. Which of the following must be odd?

Possible Answers

Selected Possible Answer

- N
- 2N
- 3N
- 2N + 1
- 3N + 1

Question: 6

What is the slope of line L?
1. L is parallel to $y = 2x + 1$
2. L is perpendicular to $X + 2Y + 5$

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 still insufficient

Question: 7

What's the radius of circle B?
1. Circle A has radius 4.
Circle A has area twice as large as circle B.

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: 8

Jamie and Jane are painting houses. Jamie can paint a house in 3 days and Jane can paint a house in 4. How many days will it take them to paint 14 houses together?

Possible Answers

Selected **Possible Answer**

- 7
- 13
- 14
- 19
- 24

Question: 9

How old is Max?
1. Max is twice as old as Noah.
2. When Noah is twice as old as he is now, Max will be 4 times his age.

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: 10

The average weight of 5 melons is 40. If my melon weighs 34, by how much will the average weight of the melons change once I add my own melon?

Possible Answers

Selected	Possible Answer
○	Up by 2
○	Up by 1
○	Down by 1
○	Down by 2
○	Down by 1.4

Question: 11

The cost of a phone call includes a connection fee plus a per/minute fee. How much did my call to Peru cost?
1. The connection fee was $5
2. The per minute fee is $0.60 a minute.

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 insffucient

Question: 12

Is S^2greater than 1^x?
1. x is negative
2. $x = -1$

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: 13

The midpoint of A and B is M(3,6). What's the distance between A and B?
1. Point A is (2, 2)
2. The slope of line AB is 4

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: 14

The sign)+(means: $y = 2x + 1$. Which of the following sets of numbers has $x) + (y = -8$?

Possible Answers

Selected Possible Answer

- 1, 8
- - 1, 8
- -2, 6
- -6, 2
- 4, -4

Question: 15

60 percent of my pets are birds, and the rest are giraffes. What's the ratio of giraffes to birds?

Possible Answers

Selected Possible Answer

- 3:5
- 3:4
- 2:3
- 1:6
- 2:5

Question: 16

An average of X numbers is equal to A. What percentage of the numbers are equal to A?
1. None of the X numbers are greater than A
2. None of the X numbers are less than A

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: 17

40 people are either blonde or tall or both. How many people are both?
1. 30 are blonde
2. 26 are tall

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: 18

In parallelogram ABCD, angle A equals x degrees and angle B equals 3y degrees. If angle D, across from B, is 45 degrees, what's the value of $x + y$?

Possible Answers

Selected	Possible Answer
○	140
○	150
○	160
○	170
○	180

Question: 19

I had $20,000. After 1 transaction my monet increased by 4%. After the second transaction, it decreased by 10%. After another transaction, finally, it increased by 6%. What's the value of my money now, approximately?

Possible Answers

Selected	Possible Answer
○	17600
○	19000

- 20000
- 20800
- 21500

Question: 20

What percentages of my mixture is water?
1. The percentage of alcohol is 37%
2. The percentage of ingredients that aren't water is 45%

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: 21

1 glog equals 0.7 floops. How many glogs is 14 floops, to the nearest glog?

Possible Answers

Selected	Possible Answer
	17
	18
	19
	20
	21

Question: 22

I have 12 more donkeys than pencils. If I have 52 donkeys and pencils combined, how many donkeys do I have?

Possible Answers

Selected Possible Answer

- ○ 20
- ○ 23
- ○ 26
- ○ 28
- ○ 32

Question: 23

I stole an equal amount of money from each stranger I met today. If I stole $50 in total, how many strangers did I meet?
1. I stole $5 from each stranger
2. If I'd met 2 more strangers I'd have stolen $60

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 insufficient

Question: 24

Find the value of $3x^2 - 23x - 8$?
1. $(3x - 8) = -2$
2. $(x + 1) = 3$

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 statemets are still insufficient

Question: 25

Find $\frac{2}{\frac{1}{6}} + \frac{6}{\frac{1}{2}}$.

Possible Answers

Selected Possible Answer

- 1/3
- 3
- 8/12
- 24
- 18

Question: 26

I can climb stairs at a rate of 5 stairs a second. If there are 65 stairs between each floor, what's the highest floor I can reach within 1 minute?

Possible Answers

Selected Possible Answer

- Third floor
- Fourth floor
- Fifth floor
- Sixth floor
- Seventh floor

Question: 27

My 5 boxes have dimensions 4 by 6 by X. If the total surface area of the boxes is 940, find X to the nearest unit.

Possible Answers

Selected Possible Answer

- 5
- 6
- 8

- 9

Question: 28

Every coin I have is either a dollar or a quarter. What's the average value of my coins?
1. 30% are dollars
2. 70% are quarters.

Possible Answers

Selected	Possible Answer
	Statement 1 is sufficient alone
	Statement 2 is sufficient alone
	Together the statements are sufficient
	Together the statements are insufficient

Question: 29

Find an intersection of $x^2 - 10x + 25$and $2x^2 - 9x - 5$.

Possible Answers

Selected	Possible Answer
	x = 1
	x = 3.5
	x = 5

Question: 30

I'm trying to line up a bunch of criminals. How many ways are there to organize the line-up?
1. There are 6 criminals in the bunch
2. Only 1 criminal committed the murder

Possible Answers

Selected	Possible Answer
	Statement 1 is sufficient alone
	Statement 2 is sufficient alone
	Each statement is sufficient on its own

- Together the statements are still insufficient

Question: 31

Find y.
1. $\frac{x}{y} = \frac{1}{3}$
2. $(x + 1) = 3$

Possible Answers

Selected	Possible Answer
	Statement 1 is sufficient alone
	Statement 2 is sufficient alone
	Together the statements are still insufficient

Question: 32

I have 6 green bags and 4 blue bags. If I randomly choose 2 bags, what's the probability that the first is green and the second is also green?

Possible Answers

Selected	Possible Answer
	1/3
	4/9
	3/10

Question: 33

Find the vertex of parabola P.
1. P passes through (2, 0)
2. P passes through (– 2, 0)

Possible Answers

Selected	Possible Answer
	Statement 1 is sufficient alone
	Statement 2 is sufficient alone
	Each statement is sufficient on its own

- Together the statements are still insufficient

Question: 34

Max needs to build a fence around a rectangular area of 60 square yards. What's the minimum amount of wire he'll need for his fence, approximately?

Possible Answers

Selected Possible Answer

- 28
- 32
- 38

Question: 35

How long will it take me to read a 10-page portion of my Harry Potter book?
1. The entire book is 760 pages
2. My pace is 1 minute per page

Possible Answers

Selected Possible Answer

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

Question: 36

p is a prime number such that $7p + 15$ is less than 57. Which of the following is also a prime number?

Possible Answers

Selected Possible Answer

- $p + 2$
- $2p + 1$
- $\sqrt{p}$

$\frac{p-1}{2}$