

# Wonderlic Test PDF

Fifty Wonderlic questions and answers  
to help you prepare by [JobTestPrep](https://www.jobtestprep.com)

## Welcome to JobTestPrep's Wonderlic Test PDF

The Wonderlic Test aims to measure your cognitive ability by challenging you to answer fifty verbal, numerical, abstract, and general knowledge questions in only 12 minutes. Although some questions might appear easy at first glance, the tight time limit and the accompanying stress of an important exam mean even seemingly straightforward questions become hard.

This is why to beat the Wonderlic, you will need to learn excellent time-management as well as get to know all the types of Wonderlic test questions in depth. In other words, **preparation is essential**.

To help kickstart your preparation, we have created this Wonderlic test PDF complete with fifty accurate sample questions and full Wonderlic test answers. See how you deal with the time pressure by setting a stopwatch to 12 minutes.

While the Wonderlic practice test you're about to take will give you an accurate representation of what to expect, in order to be as prepared as possible

JobTestPrep's Wonderlic PrepPack is what you're looking for. It includes hundreds of Wonderlic test questions and answers, practice tests with full score reports, study guides, solving tips, and basically everything you need to get the Wonderlic score you need.

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## Sample Wonderlic Test Questions

1. The eleventh month of the year is:
  - A. January
  - B. November
  - C. October
  - D. May
  
2. A shop owner bought some shovels for \$5,500. The shovels were sold for \$7,300, with a profit of \$50 per a shovel. How many shovels were involved?
  - A. 18
  - B. 36
  - C. 55
  - D. 73
  - E. 90
  - F. None of the above
  
3. How many states are there in the U.S.A?
  - A. 20
  - B. 30
  - C. 40
  - D. 50
  - E. 60

4. There are three times elephants compared to giraffes in the safari. If there is a total of 88 elephants and giraffes, how many elephants are there in the safari?

- A. 22
- B. 31
- C. 43
- D. 59
- E. 66
- F. None of the above

5. What is the next number in the series?

5, 15, 10, 13, 15, 11, \_\_\_\_

- A. 9
- B. 13
- C. 10
- D. 20
- E. 15
- F. None of the above

6. A car travels at a speed of 85 miles per hour. How far will it travel in 15 minutes?

- A. 9 miles
- B. 11 miles
- C. 13.25 miles
- D. 21.25 miles
- E. 22.75 miles
- F. None of the above

7. A car dealership sells used cars for \$7,000 and new cars for \$16,000. If a total of 17 cars were sold for \$191,000, how many of the cars sold were used?
- A. 2
  - B. 3
  - C. 5
  - D. 8
  - E. 10
  - F. None of the above
8. Joey got a 25% raise to his salary. If his original salary was \$1,200, how much was it after the raise was implemented?
- A. \$1225
  - B. \$1500
  - C. \$1350
  - D. \$1450
  - E. \$1800
  - F. None of the above
9. Arrange the following words so that they make a complete sentence. Is the rearranged sentence true or false?
- Triangle A sides three has
- A. True
  - B. False
10. \_\_\_\_\_ is to JUICE as WHEAT is to BREAD
- A. Water
  - B. Pitcher
  - C. Supermarket
  - D. Soda
  - E. Orange

11. Does FAQ mean "frequently asked questions"?

- A. Yes
- B. No

12. ATTRACTION is the opposite of:

- A. Disgust
- B. Inclination
- C. Fascination
- D. Inducement
- E. Lust

13. In the following set of words, which word does not belong?

- A. Dentist
- B. Economist
- C. Surgeon
- D. Layperson
- E. Neuropsychologist

14. DEVIATE AGITATE - The meanings of these words are:

- A. Similar
- B. Contradictory
- C. Neither similar nor contradictory

15. How many of the five pairs listed below are exact duplicates?

6845 - 6845

45641 - 45641

987878 - 987788

124555 - 123555

9898547 – 9898745

A. 1

B. 2

C. 3

D. 4

E. 5

16. If the first two statements are true, is the final statement true?

Dave spoke with Sally.

Sally spoke with John.

Dave did not speak with John.

A. Yes

B. No

C. Uncertain

17. In the following set of words, which word does not belong?

A. Affirmation

B. Designation

C. Approval

D. Authorization

E. Permission

18. \_\_\_\_\_ is to CLEANING as MEDICINE is to CURING

- A. Chore
- B. Dirt
- C. Soap
- D. Germs
- E. Shiny

19. Which one has the biggest diameter?

- A. The sun
- B. The moon
- C. Earth
- D. Venus
- E. A basketball

20. Sam and Edna have 56 marbles together. Edna has 6 times more marbles than Sam.

How many marbles does Sam have?

- A. 8
- B. 12
- C. 32
- D. 46
- E. 49
- F. None of the above



21. 17 out of 20 lung diseases are curable; what is the percentage of lung diseases that are curable?

- A. 17%
- B. 72%
- C. 85%
- D. 87%
- E. 90%
- F. None of the above

22. AFFLUENT WEALTHY - The meanings of these words are:

- 1. Similar
- 2. Contradictory
- 3. Neither similar nor contradictory

23. If the first two statements are true, is the final statement true?

Fair haired dogs live longer than black haired ones.

Rocco is a fair-haired dog.

Rocco will live longer than Bonzo.

- A. Yes
- B. No
- C. Uncertain

24. START is the opposite of...

- A. Source
- B. Inception
- C. Conclusion
- D. Initiation
- E. Origin

25. IMPERIOUS is the opposite of...

- A. Arrogant
- B. Moody
- C. Subservient
- D. Quiet
- E. Stormy

26. How many of the six pairs listed below are exact duplicates?

3356 3356

87878 87978

909152 989152

7776145 7776145

865656 865656

71829 71829

- A. 1
- B. 2
- C. 3
- D. 4
- E. 5

27. In the following set of words, which word is different from the others?

- A. Solemn
- B. Archaic
- C. Grave
- D. Mirthless
- E. Serious

28. How many of the five pairs listed below are exact duplicates?

123A3 122A3

LLO8761 LLO8761

KKA3213 KKA3233

ORR13726B ORR13726B

12AB12AB1 12AB1AB121

- A. 1
- B. 2
- C. 3
- D. 4
- E. 5

29. If the first two statements are true, is the final statement true?

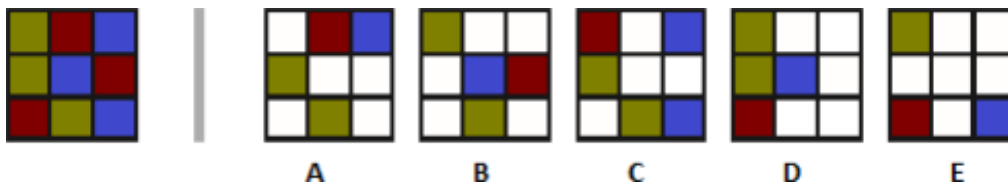
All dogs have a brown leg.

Barky has a brown leg.

Barky is a dog.

- A. True
- B. False
- C. Uncertain

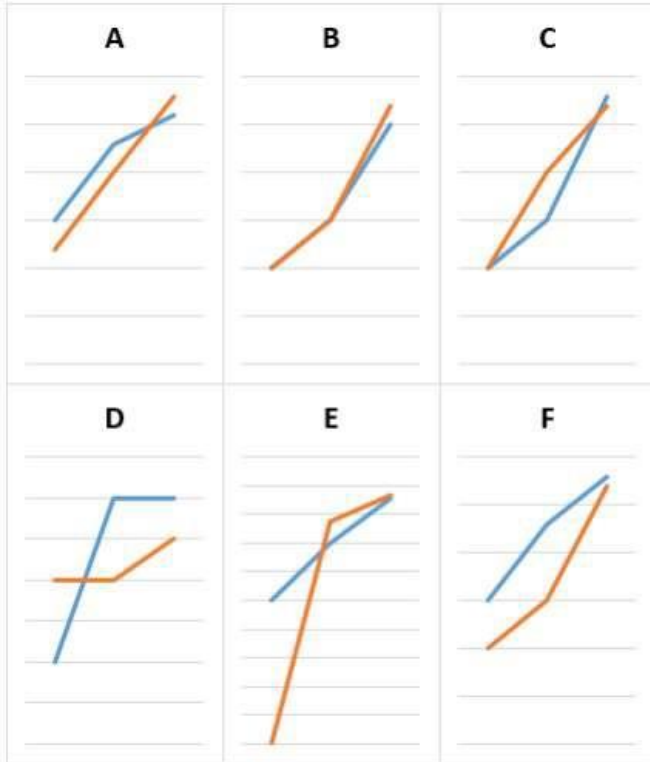
30. Which THREE choices are needed to create the figure on the left? Only pieces of the same color may overlap.



31. John's monthly salary is \$7,000. If John deposits 0.75 of his paycheck into a savings account. How much money does he put in his savings account every month?
- A. \$4,240
  - B. \$4,250
  - C. \$5,250
  - D. \$ 6,250
32. An oven can bake 8 pies of thin crust pizza per hour, or 2 pies of deep-dish pizza pies per hour. How many hours will it take to prepare an order of 16 thin crust pies and 4 pies of deep dish?
- A. 4 hours
  - B. 2.5 hours
  - C. 2 hours
  - D. 1 hours
33. John's gross pay for the past month is \$4687.24. If \$421.78 was deducted from John's gross pay, how much take-home pay did John earn this past month?
- A. \$ 421.78
  - B. \$ 4265.46
  - C. \$ 4687.24
  - D. \$ 5109.02
34. A motorcyclist rode between Flibbertown and Guineville at a steady pace of 60 miles per hour for 2 hours. After two hours she accelerated to 65 miles per hour for another full hour. What is the distance between those cities?
- A. 150 miles
  - B. 180 miles
  - C. 165 miles
  - D. 185 miles
  - E. None of the above

35. In the stock market, four different stocks have an average price of \$100 per stock. The price of a drone stock is \$70. What is the average price of the three other stocks (not including the drone stock)?
- A. 107
  - B. 110
  - C. 112
  - D. 117
  - E. Cannot say
36. The volume of a rectangle prism is 100 cubic inches. Which of the alternatives is its greatest possible length?
- A. 100
  - B. 10
  - C. 20
  - D. 60
  - E. 50
37. Which THREE of the following words have similar meanings?
- A. Rapidly
  - B. Exceedingly
  - C. Hastily
  - D. Eventually
  - E. Swiftly
38. In the following set of words, which word is different from the others?
- A. Inflation
  - B. Interest
  - C. Debt
  - D. Budget
  - E. Drought

39. Over a period of three years, the heights of two siblings, Miki and Layla, were measured. Miki's height was 160 cm, 168 cm, and 171 cm respectively, whereas Layla's height was 157 cm, 165 cm, and 173 cm respectively. Which of the graphs below best represents both of the siblings' growths?



40. How many of the five pairs listed below are exact duplicates?

Omar A. Mahmoud	Omar A. Mahmmoud
Elenora R. Deleeuw	Elenora R. Deleeuw
Jann R. Depaul	Jahn R. Depaul
Jeremia N. Inch	Jeremia N. Inch
Walton V. Constante	Walton V. Constante

- A. 1
- B. 2
- C. 3
- D. 4
- E. 5

41. Which alternative includes all the states that border Oklahoma?

- A. Texas, New Mexico, Arkansas, Missouri, Kansas, Colorado
- B. Texas, Arkansas, Missouri, Kansas, Louisiana, Colorado
- C. Texas, New Mexico, Mississippi, Missouri, Kansas, Colorado
- D. Texas, New Mexico, Kansas
- E. Texas, Arkansas, Missouri, Kansas, Colorado

42. COMPLACENT COMPLIANT - The meanings of these words are:

- A. Similar
- B. Contradictory
- C. Neither similar nor contradictory

43. Arrange the following words to make a complete sentence. What comes just before the word "by?"

suitcase by managed the carry to himself Mike

- A. Himself
- B. Managed
- C. Carry
- D. Suitcase
- E. To

44. Abundant is the opposite of:

- A. Ample
- B. Meager
- C. Sufficient
- D. Overflowing
- E. Lavish

45. Oranges are to fruits as \_\_\_\_\_ are to shapes.

- A. Angles
- B. Dimensions
- C. Dots
- D. Rulers
- E. Triangles

46. If the first two statements are true, is the final statement true?

Some officers carry a gun.

Most officers carry a club.

The chances of finding an officer who carries both a gun and a club are high.

- A. Yes
- B. No
- C. Cannot say



47. How many of the five pairs listed below are exact duplicates?

- A. 1
- B. 2
- C. 3
- D. 4
- E. 5

48. What is the following number in the series?

- A. 0.9
- B. 1.26
- C. 1.44
- D. 1.62

49. Which THREE of the following words have similar meanings?

- A. Information
- B. Indoctrinate
- C. Enlighten
- D. School
- E. Class

50. Jade is 9 years older than Rose. In 4 years' time, Jade's age will be double Rose's age.

What are their ages today?

- A. Jade is 5 years old, and Rose is 14 years old
- B. Jade is 14 years old, and Rose is 5 years old
- C. Jade is 2 years old, and Rose is 11 years old
- D. Jade is 10 years old, and Rose is 1 year old
- E. Cannot be determined

Congratulations, you have completed a full [Wonderlic practice test](#) including fifty Wonderlic test questions! **Before moving on to the Wonderlic test answers section below**, take a second to think about how you did. Were there areas you felt more / less comfortable with? How did you handle the time pressure?

Even if you feel you did not do as well as you could have, don't worry. Repeated practice with accurate preparation materials will get you to the level you are after.

With our [Full Wonderlic PrepPack](#), you will get all the practice you need to hone your skills and focus on weaker areas through practice tests, specialized exercises, and study guides. The more you practice with accurate Wonderlic sample questions, the better your score will be – simple as that.

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## Wonderlic Test Answers and Explanations

1. The correct answer is (B). The eleventh month of the year is November.
2. The correct answer is (B). The total profit from the sale is the selling price minus the cost of purchase, which is  $\$7300 - \$5500 = \$1800$ . If the total profit is  $\$1800$  and each shovel accounts for  $\$50$  profit, the amount of shovels is  $1800/50 = 36$ .
3. The correct answer is (D). The USA has 50 states.

4. The correct answer is (E).

If there are 3 times as many elephants as there are giraffes, giraffes can be defined as  $X$ , and elephants as  $3X$ , and build the following equation:

$$3X + X = 88$$

$$4X = 88$$

$$X = 88/4$$

$$X = 22$$

As stated above,  $X$  stands for the number of giraffes. Thus, there are 22 giraffes.

As mentioned in the problem, there are three times as many elephants as there are giraffes in the safari. Thus, to find how many elephants there are in the safari, multiply the number of giraffes by 3:

$$22 * 3 = 66$$

66 is the number of elephants in the safari.

5. The correct answer is (D). This series is made up of two separate subseries that alternate:

1. A series of numbers (the odd terms) that increase by 5 (5, 10, 15).

2. A series of numbers (the even terms) that decrease by 2 (15, 13, 11).

The pattern is: 5, 15, 10, 13, 15, 11, \_\_\_\_

As you can see, the numbers that increase by 5 are bolded, and the numbers that

decrease by 2 are underlined. We are missing the seventh number which is an odd term: therefore, it should be greater than the last odd term (the fifth number) by 5. The fifth number is 15. Thus, the answer is  $15 + 5 = 20$ .

6. The correct answer is (D). An hour consists of 60 minutes. A quarter of an hour is 15 minutes as  $15 * 4 = 60$ . Thus, divide the distance traveled per hour by 4, which is  $85/4=21.25$ .

7. The correct answer is (F) - None of the above.

First of all, in order to simplify the calculations, we can divide all the numbers by a common denominator: 1000, in that way we can get rid of all those annoying zeroes. Now we define the used cars as U (with a price of 7 each) and the new cars as N (with a price of 16 each) Now we can build two equations, the first representing the total price and the second the total amount of cars:

a.  $7U+16N=191$

b.  $N+U= 17$

So according to the second equation  $N = 17-U$ , and we can now substitute N in the first equation:  $7U+16(17-U) = 191$ ;  $7U+272-16U=191$ ;  $9U=81$ ;  $U=9$ .

9 used cars were sold.

### **Solving Tip:**

You could try solving this question by elimination. For starters, since 191 is an odd number and 16 is an even number, then the number of used cars must be odd (even + odd = odd) - which means we can eliminate answers A, D & E.

Now that we are left only with B and C, let's try to calculate it for each of these options:

\*.  $3*7 + 16*(17-3) = 245$ , which means we can eliminate B as an answer.

\*.  $5*7 + 16*(17-5) = 227$ , which means we can eliminate C as an answer.

Therefore, the only possible answer is F - none of the above.

8. The correct answer is (B). 25% equals one quarter and a quarter of 1200 is  $1200/4=300$ . Therefore, an addition of a quarter to 1200 equals  $1200+300=1500$ .
9. The sentence is: A triangle has three sides, which is true.
10. The correct answer is (E). An orange is used to produce juice like wheat is used to produce bread. In addition, both wheat and oranges must be processed to produce the final product. This eliminates answer (A).
11. Yes, FAQ is the acronym for "frequently asked question".
12. The correct answer is (A). Attraction is a word used to describe the power of drawing, alluring, or enticing while disgust is a word used to describe a feeling of loathing that causes aversion.
13. The correct answer is (D). A layperson is a word used to describe a person who does not belong to a particular profession while the other words are all different professions.
14. The correct answer is (C). To deviate is a word used to describe straying away from a course. To agitate is a word used to describe disturbing, exciting, or angering someone or something.
15. There are 2 exact duplicates: 6845 and 45641.
16. The correct answer is (C) - It is uncertain whether the last statement is true.  
The first 2 statements do not tell us anything about Dave talking to John, therefore we cannot know if it is true or not.

17. The correct answer is (B). Designation is the act of indicating, while the other words mean confirmation.
18. The correct answer is C). Soap is used for cleaning as medicine is used for curing.
19. The correct answer is (A). The sun has a diameter over than 100 times larger than earth, which has a diameter larger than the all the other answers.
20. The correct answer is (A). If Edna has 6 times more marbles than Sam, we can define Sam as X and Edna as 6X, and build the following equation:  $X+6X=56$ , therefore  $X=8$ .
21. The correct answer is (C). To find out how much is 17 out of 20 in percentage, we need to reach a denominator of 100 (a percent is simply a fraction with a denominator of 100). To do this, we multiply the fraction  $17/20$  by 5 and reach  $85/100$  which is 85%.
22. The correct answer is (A). Both affluent and wealthy mean having a great deal of resources or money. Therefore, the words are similar in meaning.
23. The correct answer is (C). Because we do not know what kind of hair Bonzo has, we cannot know anything about his life span compared to Rocco. Therefore, the statement is uncertain.
24. The correct answer is (C). Start means "to begin," so the antonym is conclusion. Inception and origin are synonyms. Source is not related. Therefore, the correct answer is conclusion.
25. The correct answer is (C). The word imperious describes an arrogantly domineering or overbearing person while a subservient person is extremely compliant and submissive.

26. The correct answer is (D). The exact duplicates are: 3356; 7776145; 865656; 71829
27. The correct answer is (B). Archaic is a word used to describe something that belongs to an earlier period of time, while the other words are used to describe sad and gloomy states of mind or facial expressions.
28. The correct answer is (B). The exact duplicates are: LLO8761, ORR13726B.
29. The correct answer is (C). The fact that every dog has a brown leg doesn't mean that each creature with brown leg is a dog.
30. The correct answers are: (A), (B), and (E).

Explanation: If you place figures A, B, and E one on top of the other, the figure on the left is created.

In order to find the correct solution quickly, ask yourself the following question:

Ask yourself which figures cannot be a part of the solution?

Option C cannot be a part of the solution because it has a red tile on the top right instead of a green tile. Option D seems like the right option to start with, but when assembled with other figures there are some blank tiles left. If it is assembled with A and B, it leaves the tile on the bottom left, which supposed to be blue, blank. If it is assembled with B and E, it leaves the upper right tile, which is supposed to be blue, blank. If it assembled with A and E, it will leave the center right tile, which supposed to be red, blank. Therefore, it cannot be a part of the solution.

The only options left are A, B and E.

31. The correct answer is (C).

In order to find how much money he puts in his savings account, we need to find how much is 0.75 of \$7,000:

$$(75/100) \times 7000 = \$5,250.$$

**Solving Tip:**

If multiplying  $7,000 \times 0.75$  seems to be a bit too difficult, we can also use estimations and eliminate wrong answer choices. Let's round 0.75 down to 0.70, while keeping in mind that the correct answer must be slightly larger than the result.

$$7,000 \times 0.70 =$$

$$7,000 \times (70/100)$$

$$= 70 \times 70$$

$$= 4900.$$

Answers A and B can definitely be eliminated as they are too low. Since we only rounded down by 0.05, know that the correct answer will only be slightly larger than 4900. We can therefore conclude with fair certainty that C is the correct answer.

32. The correct answer is (A).

$$\text{Time} = \text{work}/\text{rate}$$

In order to calculate how long it would take to prepare 16 thin crusts, we need to divide 16 by the rate of thin crusts per hour.

$$16 \text{ thin crust pies} / 8 \text{ thin crust pies per hour} = 2 \text{ hours}$$

Similarly, to calculate how long it would take to prepare 4 deep dish pies, we need to divide 4 by the rate of deep-dish pies per hour.

$$4 \text{ deep dish pies} / 2 \text{ deep dish pies per hour} = 2 \text{ hours}$$

The number of hours it will take to complete the order is 2 hours + 2 hours = 4 hours.

33. The correct answer is (B). If John's gross pay was \$4687.24 and \$421.78 was deducted from that amount, John's take-home pay was:

$$\$4687.24 - \$421.78 = \$4265.46.$$

34. The correct answer is (D).

To solve the question, we need to separate the two stages. The first stage is: the two-hour ride at a rate of 60 mph; the second stage is the one-hour ride at a rate of 65 mph. Let's put the information in a table:

If we sum up the distance of both stages, we will find the distance between the



cities.

The first stage is calculated using the formula  $\text{Time} * \text{Speed} = \text{Distance}$ :

$2 \text{ hours} * 60 \text{ miles per hour} = 120 \text{ miles}$

The second stage is calculated using the same formula:

$1 \text{ hour} * 65 \text{ miles per hour} = 65 \text{ miles}$

Therefore, the total distance between the cities is  $120 \text{ miles} + 65 \text{ miles} = 185 \text{ miles}$ .

35. The correct answer is (B). To calculate an average, we have to know the sum of the individual values, and the number of individuals. We know that there are four different stocks, so the number of individuals is four (Number of individuals). Now, find the sum of the prices of all the stocks (Sum of the individuals' value). We can calculate the sum of the group's value with the average of the values:

Let's insert the figures that we know into the formula.

The average of the 4 stock prices is \$100, and therefore the sum of the stock prices is \$400.

If the value of the Drone stock is \$70, we can conclude that the sum of the remaining three stock prices is \$330. If the value of three of them is \$330, the average price is \$110.

Quick tip:

If an average is provided followed by the number of values, the sum of the values can be calculated. The sum is calculated as follows:

$\text{Number of values} * \text{Average} = \text{Sum of the values}$ .

36. The correct answer is (A).

To answer the question correctly, we need to understand it. To find out the greatest possible size, we must think in extremes. The volume formula of a rectangular prism is:

$\text{Length} * \text{Width} * \text{Depth} = \text{Volume}$ .

If the volume is already set at 100 cubic inches, we can obtain from the formula the greatest value for length if we set the lowest values for width and depth.

Theoretically, both the width and depth may each be 1 inch, and the length 100 inches: thus, the correct answer is A.

37. The correct answers are: (A) rapidly, (C) hastily, and (E) swiftly. All three words are adverbs that mean “quickly.”

“Exceedingly” does not belong because it means “extremely.” “Eventually” is not related to speed but to chronological order; therefore, it does not belong.

38. The correct answer is (E). All of the other answers are closely related to money, while drought is related to the weather/climate. This question is confusing because a drought can bring on financial difficulties to a country, causing inflation and debt, but a drought is simply a period of dry weather.

39. The correct answer is (A).

First method:

We can see that Layla's growth is constant and steady because she grows by eight centimeters every year. Therefore, we are looking for a line that has a steady slope.

The only graph containing a line with a steady slope is graph A.

Second method:

We know that in the third year Layla became taller than Miki. In a graph, it should be represented with one line that is lower than the other line at the first two points and then which crosses over the other line at the third point. The only correlating graphs are A and C. However, graph C depicts siblings who began at the same height (the same point), and we know that Miki and Layla did not. Thus, graph C can be eliminated, and the correct answer is A.

40. The correct answer is (C).

41. The correct answer is A.

Six states border Oklahoma:

In the north – Kansas and Colorado

In the south – Texas

In the east – Arkansas and Missouri

In the west – New Mexico

42. The correct answer is (A). Complacent and compliant both mean “pleasant.”
43. The correct answer is (D). The sentence should read: “Mike managed to carry the suitcase by himself.” Therefore, the word that comes before the word “by” is “suitcase.”

**Solving tip:**

There is one capitalized word in this sentence, and it is "Mike." Therefore, it is the first word in the sentence and it is the subject of the sentence. The following word after a subject will probably be a verb or a "to be" verb, thus the only word which fits afterwards is "managed."

In addition, the word that comes after the word "by" has to be the word "himself."

44. The correct answer is (B). “Abundant” is an adjective meaning “plentiful” while “meager” is an adjective meaning “not enough.” Therefore, the words are opposite in meaning. Answers (A), (D), and (E) are synonyms of "abundant." While answer (C) is related to "abundant," it is neither a synonym nor an antonym of it.
45. The correct answer is (E).

To solve this question correctly, it is necessary to understand the relationship between X and Y (oranges and fruits). Creating a sentence with the first pair of words and applying it to the second pair is a useful method for solving this type of question.

Thus, we should phrase a sentence to define what X is to Y.

Oranges are a specific kind of fruit.

Now, we can try to apply this relation to shapes:

A. Angles are a specific kind of shape.

B. Dimensions are a specific kind of shape.

- C. Dots are a specific kind of shape.
- D. Rulers are a specific kind of shape.
- E. Triangles are a specific kind of shape.

Options B, dimensions, can be eliminated because it is a characteristic of a shape, not a type of one. Option D, rulers, can also be eliminated as rulers may assist us in creating shapes, but they are not a shape. Angles, dots, and triangles are the only options left.

Although angles and dots are a part of shapes, they do not constitute as shapes.

Thus, the correct answer is E.

46. The correct answer is (C), cannot say. Although most officers carry a club, we do not know how many of them carry a gun. Therefore, we cannot reach any conclusions about the probability of finding an officer carrying both a gun and a club.

47. The correct answer is (D).

48. The correct answer is (C). Each term is double the previous term.

49. The correct answers are: (B) indoctrinate, (C) enlighten, and (D) school. All three words are verbs that mean "to teach."

"Information" is related to the group but is a noun; therefore, it does not belong. "Class" is also related to the group, and when used as verb, it means "to arrange in a particular group" and not "to teach."

50. The correct answer is (B). All the information given is based on the relation between Jade's age and Rose's age. Let's denote Jade's age by X and Rose's age by Y. "Jade is 9 years older than Rose" – we can translate this information into an equation.

$$X=Y+9$$

Unfortunately, an equation with two variables is not solvable unless we have

another equation. "In 4 years' time, Jade's age will be double Rose's age" - the second sentence also represents a relation. It means that in 4 years Jade's age will be  $X+4$  and will be double Rose's age, which will be  $Y+4$ . Look at the equation below:

$$X+4=2(Y+4)$$

Now we have two different equations with 2 variables. The first variable ( $X$ ) is isolated in the first equation so we can insert its value in the second equation by denoting  $X$  as an expression of  $Y$ .

$$(Y+9) +4=2(Y+4)$$

$$(Y+9) +4=2Y+8$$

$$Y+13=2Y+8$$

$$Y=5$$

The only answer which states that Rose's age as 5 is answer B.

### **Another method:**

Is understanding the relation between the ages too difficult? You can't convert them into equations properly? There is another way to solve this question without all those calculations.

The question asks about their ages, and the alternatives offer different ages to choose from. We do not need to try and find the answers ourselves because one of the answers is correct (and if not, the alternative "Cannot be determined" is correct). All we have to do is to check which of the values from the answers fits into the right terms that the question states. We need to find two different ages, with a 9-year gap between them. Furthermore, Jade has to be the older one. The only answers which fit are B and D.

How can we determine which one of them is the correct answer? The second relation between the ages will help. In 4 years, Jade will be twice as old as Rose.

Answer B is correct because if Jade is now 14 and Rose is 5, in 4 years' time Jade will be 18 and Rose will be 9.

**Solving tip:**

18 is twice as much as 9 so this can be the right answer. Although it fits the information the answer "Cannot be determined" is a trap. Why is that? Because maybe there are two correct answers. If there are, the correct answer is "Cannot be determined." Therefore, we have to check whether answer D fits the terms as well. If it doesn't, the correct answer is B, and if it does the correct answer is E.

Answer D contradicts the information, because in 4 years' time Jade will be 14 and Rose will be 5.  $5 \times 2$  is not 14 and therefore the correct answer is B.

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