

1. 有 16 個小朋友排成一排，Ken 的左邊有 6 個小朋友。Ken 的右邊有 (\_\_\_\_) 個小朋友？(There are 16 children standing in a line. If there are 6 children to the left of Ken, how many children are there to his right?)

答案：9

2. 一個籃子裏有蘋果和梨，總共有 10 個水果。如果蘋果有 6 個，那麼梨有幾個？(There are apples and pears in a basket, with a total of 10 fruits. If there are 6 apples, how many pears are there?)

- A. 3
- B. 4
- C. 5
- D. 6

答案：B

3. 一個籃子裏有紅球和藍球，紅球的數量比藍球多 3 個。如果一共有 21 個球，那麼籃子裏有多少個紅球？(There are red balls and blue balls in a basket. The number of red balls is 3 more than the number of blue balls. If there are 21 balls in total, how many red balls are there in the basket?)

- A. 7
- B. 9
- C. 12
- D. 14

答案：C

4. Miss Chan 有 20 本書，她想平均分給他的 4 個朋友，每個朋友可以得到幾本書？(Miss Chan has 20 books and wants to divide them equally among her 4 friends. How many books can each friend get?)

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

答案：D

5. Colin 有四種顏色的球：紅、藍、黃、綠。他想從中選出兩種顏色的球玩，請問有 (\_\_\_\_) 種選法？(Colin has four colors of balls: red, blue, yellow, and green. He wants to choose two colors of balls to play with. How many ways can he choose?)

答案：6

6. 在一組數字 1, 2, 3, 4 中，選擇數字相加可以得到 5 的組合是？(In a set of numbers 1, 2, 3, 4, what combinations of numbers add up to 5?)

- A. 1 and 4
- B. 2 and 3
- C. 1 and 2 and 3
- D. 4

答案：AB

7. 布袋裏有兩只紅襪子和兩只黑襪子，至少拿出 (\_\_\_\_) 只，才能保證配成一雙同樣顏色的襪子？(In a bag containing two red socks and two black socks, how many socks must be taken out to ensure there is at least one pair of the

same color? )

答案：3

8. 一根電線，對折再對折，最後從中間剪開，剪開的電線一共有( \_\_ )段？( A piece of wire is folded in half, then folded in half again, and finally cut in the middle. How many segments of wire are there after cutting? )

答案：4

9. Steve 從 1 寫到 100，他共寫了( \_\_\_\_ )個數字“1”？( Steve writes the numbers from 1 to 100. How many times does he write the digit "1"?)

答案：21

9. 一座橋上並排只能通過 3 個人，現在有 4 個好朋友想要一起過橋。他們步伐速度不同，分別為 1 分鐘、2 分鐘、5 分鐘和 10 分鐘。每次只能 2 個人一起過橋，且必須以相同的速度過橋。問最快需要多少分鐘他們才能全部過橋？( One bridge can only allow 2 people to cross side by side. Now, 4 friends want to cross the bridge together. They have different walking speeds: 1 minute, 2 minutes, 5 minutes, and 10 minutes. Each time, only 2 people can cross the bridge, and they must walk at the same speed. What is the minimum time required for all of them to cross the bridge?)

A. 15

B. 16

C. 17

D. 18

答案：B

10. Kelvin 有 12 枚硬幣，其中有 1 枚是假幣，重量比真幣輕。他只有一臺天秤，最少需要稱量多少次，可以找出這枚假幣？( Kelvin has 12 coins, one of which is a counterfeit that is lighter than the others. He only has a balance scale. What is the minimum number of weighing needed to find the counterfeit coin?)

A. 2

B. 3

C. 4

D. 5

答案：B

11. 一個籃子裏有蘋果和梨，總共 12 個水果，蘋果比梨多 4 個。籃子裏有蘋果多少個？( In a basket, there are apples and pears, with a total of 12 fruits. There are 4 more apples than pears. How many apples are in the basket?)

A. 3

B. 5

C. 8

D. 6

答案：C

12. 一個數字( \_\_\_\_ )乘以 2 加上 3 等於 13，這個數字是？( A number ( \_\_\_\_ ) multiplied by 2 and then added to 3 equals 13. What is this number?)

答案 1：5

13. John 每天比 Steve 多讀 3 頁書。如果 John 一周 (7 天) 共讀書 210 頁。那麼 Steve 一周共讀書多少頁? (If John reads 3 more pages each day than Steve, and John reads a total of 210 pages in a week (7 days), how many pages does Steve read in a week?)

- A. 175
- B. 180
- C. 189
- D. 196

答案 : C

14. 哥哥的糖比弟弟多。哥哥給弟弟 2 顆糖後。兩人的糖就同樣多了。原來哥哥比弟弟多(\_\_\_\_)顆糖? (The older brother has more candies than the younger brother. After the older brother gives 2 candies to the younger brother, they have the same amount of candies. How many more candies did the older brother originally have than the younger brother?)

答案 : 4

15. 用 2、5、8 這三張數字卡片。可以組成 (\_\_\_\_) 個不同的兩位數。(Using the number cards 2, 5, and 8, how many different two-digit numbers can be formed?)

答案 1 : 6

1. 一個籃子裏有蘋果和梨。總共有 10 個水果。如果蘋果有 6 個。那麼梨有幾個? (There are apples and pears in a basket, with a total of 10 fruits. If there are 6 apples, how many pears are there?)

- A. 3
- B. 4
- C. 5
- D. 6

答案 : B

2. 一個籃子裏有紅球和藍球。紅球的數量比藍球多 3 個。如果一共有 21 個球。那麼籃子裏有多少個紅球? (There are red balls and blue balls in a basket. The number of red balls is 3 more than the number of blue balls. If there are 21 balls in total, how many red balls are there in the basket?)

- A. 7
- B. 9
- C. 12
- D. 14

答案 : C

3. Miss Chan 有 20 本書。她想平均分給他的 4 個朋友。每個朋友可以得到幾本書? (Miss Chan has 20 books and wants to divide them equally among her 4 friends. How many books can each friend get?)

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

答案 : D

4. Kelvin 有 12 枚硬幣，其中有 1 枚是假幣，重量比真幣輕。他只有一臺天秤，最少需要稱量多少次，可以找出這枚假幣？（Kelvin has 12 coins, one of which is a counterfeit that is lighter than the others. He only has a balance scale. What is the minimum number of weighing needed to find the counterfeit coin?）

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

答案：B

5. John 每天比 Steve 多讀 3 頁書，如果 John 一周（7 天）共讀書 210 頁，那麼 Steve 一周共讀書多少頁？（If John reads 3 more pages each day than Steve, and John reads a total of 210 pages in a week (7 days), how many pages does Steve read in a week?）

- A. 175
- B. 180
- C. 189
- D. 196

答案：C

6. 用 2、5、8 這三張數字卡片，可以組成（    ）個不同的兩位數。（Using the number cards 2, 5, and 8, how many different two-digit numbers can be formed?）

答案 1：6

7. 某商店的商品打八折後售價為 160 元，原價是多少？

The price of an item after a 20% discount is 160 yuan. What was the original price?

- A. 180 元
- B. 190 元
- C. 200 元
- D. 210 元

答案：C

8. 一座橋上並排只能通過 3 個人，現在有 4 個好朋友想要一起過橋。他們步伐速度不同，分別為 1 分鐘、2 分鐘、5 分鐘和 10 分鐘。每次只能 2 個人一起過橋，且必須以相同的速度過橋。問最快需要多少分鐘他們才能全部過橋？（One bridge can only allow 2 people to cross side by side. Now, 4 friends want to cross the bridge together. They have different walking speeds: 1 minute, 2 minutes, 5 minutes, and 10 minutes. Each time, only 2 people can cross the bridge, and they must walk at the same speed. What is the minimum time required for all of them to cross the bridge?）

- A. 15
- B. 16
- C. 17
- D. 18

答案：B

9. 有 16 個小朋友排成一排，Ken 的左邊有 6 個小朋友，Ken 的右邊有多少個小朋友？（There are 16 children standing

in a line. If there are 6 children to the left of Ken, how many children are there to his right?)

答案：9

10.三個同學比身高。A說：我比B高；B說：我比C矮；C說：我比A高。（\_\_\_\_）最高，（\_\_\_\_）最矮。（Three students are comparing their heights. A said: "I am taller than B."; B said: "I am shorter than C."; C said: "I am taller than A." ( ) is the tallest, and ( ) is the shortest.)

答案1：C

答案2：B

11.蹺蹺板的兩邊各有四個鐵球，這時蹺蹺板保持平衡。如果拿掉一個鐵球，蹺蹺板上還有（\_\_\_\_）個鐵球？（There are four iron balls on each side of a seesaw, keeping it balanced. If one iron ball is removed, how many iron balls are left on the seesaw?）

答案1：0

12.Calvin 家住在三樓，他每上一層樓要走 14 級臺階，Calvin 從一樓走到三樓要走（\_\_\_\_）級臺階？（Calvin lives on the third floor. He needs to climb 14 steps for each floor. How many steps does Calvin need to climb from the first floor to the third floor?）

答案1：28

13.把一根木頭鋸成 3 段，要鋸（\_\_\_\_）次？如果每鋸一次用 3 分鐘，一共要鋸（\_\_\_\_）分鐘？（To cut a piece of wood into 3 pieces, how many times do you need to saw it? If each sawing takes 3 minutes, how many minutes will it take in total?）

答案1：2

答案2：6

1.3 位老師帶 20 個同學去划船，如果每條船最多能坐 6 個人，至少要租（\_\_\_\_）條船。（Three teachers take 20 students to go boating. If each boat can hold a maximum of 6 people, how many boats at least must be rented?）

答案1：4

2.雞兔同籠，共有 5 個頭，16 條腿，有（\_\_\_\_）只雞，（\_\_\_\_）只兔。

In a cage, there are chickens and rabbits. There are 5 heads and 16 legs in total. How many chickens and how many rabbits are there?

答案1：2

答案1：3

3.某商店的商品打八折後售價為 160 元，原價是多少？

The price of an item after a 20% discount is 160 yuan. What was the original price?

A. 180 元

B. 190 元

C. 200 元

D. 210 元

答案：C

4. Miss Chan has 20 books. She wants to divide them equally among her 4 friends. How many books can each friend get?

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

Answer: D

5. A bridge can only allow 2 people to cross side by side. Now, 4 friends want to cross the bridge together. They have different walking speeds: 1 minute, 2 minutes, 5 minutes, and 10 minutes. Each time, only 2 people can cross the bridge, and they must walk at the same speed. What is the minimum time required for all of them to cross the bridge?

- A. 15
- B. 16
- C. 17
- D. 18

Answer: B

6. Kelvin has 12 coins, one of which is a counterfeit that is lighter than the others. He only has a balance scale. What is the minimum number of weighings needed to find the counterfeit coin?

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

Answer: B

7. A train has 20 carriages, each 5 meters long, with a 1-meter gap between each carriage. The train travels at a speed of 20 meters per minute. How many minutes does it take for the train to completely pass through an 81-meter-long tunnel?

Answer 1: 10

8. A straight road in a central park has a crab apple tree planted at one end. Now, a crab apple tree is planted every 12 meters, using a total of 25 trees. How long is this road ( ) meters?

Answer 1: 288

9. Find the pattern: 20, 12, 15, 9, 10, 6, ( ), ( ).

Find the pattern: 20, 12, 15, 9, 10, 6, ( ), ( ).

Answer 1: 6

Answer 2: 4

10.一輛車從甲地開往乙地，全程為 120 公里。如果它前半程的速度是 60 公里/小時，後半程的速度是 40 公里/小時，那麼這輛車全程的平均速度是多少公里/小時？ ( A car travels from point A to point B, covering a total distance of 120 kilometers. If the speed for the first half of the trip is 60 kilometers per hour and the speed for the second half is 40 kilometers per hour, what is the car's average speed for the entire trip in kilometers per hour?)

- A. 48
- B. 50
- C. 52
- D. 60

答案：A

11.Trump 有 24 本書，比 Biden 多 6 本。如果 Biden 想擁有與 Trump 一樣多的書，Biden 需要再買幾本書？ ( Trump has 24 books, which is 6 more than Biden. If Biden wants to have the same number of books as Trump, how many more books does Biden need to buy?)

- A. 6
- B. 8
- C. 10
- D. 12

答案：B

12.有一個四位數，它的千位數字加上個位數字等於十位數字，百位數字是千位數字的兩倍，且這個四位數是 6 的倍數，這個數是多少？

Here is a four-digit number where the thousand's digit plus the unit's digit equals the ten's digit, the hundred's digit is twice the thousand's digit, and the number is a multiple of 6. What is this number?

- A. 2468
- B. 2442
- C. 3461
- D. 4763

答案：B

13.一個小貓每天吃魚的數量是前一天的 2 倍，如果第三天它吃了 8 條魚，那麼第一天它吃了多少條魚？

A kitten eats twice the number of fish each day compared to the previous day. If on the third day it ate 8 fish, how many fish did it eat on the first day?

- A. 1
- B. 2
- C. 4
- D. 8

答案：B

14.時鐘 5 點打 5 下，一共需要 4 秒鐘。問中午 12 點打 12 下需要 (\_\_\_\_) 秒鐘？ A clock strikes 5 times at 5 o'clock, taking a total of 4 seconds. How many seconds will it take to strike 12 times at 12 o'clock?

答案：11

1. 有一個四位數，它的千位數字加上個位數字等於十位數字，百位數字是千位數字的兩倍，且這個四位數是 6 的倍數，這個數是多少？

Here is a four-digit number where the thousand's digit plus the unit's digit equals the ten's digit, the hundred's digit is twice the thousand's digit, and the number is a multiple of 6. What is this number?

- A. 2468
- B. 2442
- C. 3461
- D. 4763

答案：B

2. Trump 有 24 本書，比 Biden 多 6 本。如果 Biden 想擁有與 Trump 一樣多的書，Biden 需要再買幾本書？( Trump has 24 books, which is 6 more than Biden. If Biden wants to have the same number of books as Trump, how many more books does Biden need to buy?)

- A. 6
- B. 8
- C. 10
- D. 12

答案：B

3. 找規律 20、12、15、9、10、6、( )、( )。

Find the pattern: 20, 12, 15, 9, 10, 6, ( ), ( ).

答案 1：6

答案 2：4

4. 一列火車共 20 節，每節長 5 米，每兩節之間相距 1 米。這列火車以每分鐘 20 米的速度通過 81 米長的隧道，需要( )分鐘？(A train has 20 carriages, each 5 meters long, with a 1-meter gap between each carriage. The train travels at a speed of 20 meters per minute. How many minutes does it take for the train to completely pass through an 81-meter-long tunnel?)

答案 1：10

5. Kelvin 有 12 枚硬幣，其中有 1 枚是假幣，重量比真幣輕。他只有有一臺天秤，最少需要稱量多少次，可以找出這枚假幣？( Kelvin has 12 coins, one of which is a counterfeit that is lighter than the others. He only has a balance scale. What is the minimum number of weighing needed to find the counterfeit coin?)

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

答案：B

6. 街心公園一條直路的一側有一端原栽種著一株海棠樹，現每隔 12 米栽一棵海棠樹，共用樹苗 25 棵，這條路長( )米？(A straight road in a central park has a crab apple tree planted at one end. Now, a crab apple tree is planted every 12 meters, using a total of 25 trees. How long is this road ( )meters?)

答案 1：288



7. 在一個等邊三角形的內部，以三個頂點作為角度的頂點，劃出三條直線，使得這三條直線相交於一個點。這樣的劃線方式共有幾種？

In the interior of an equilateral triangle, three lines are drawn with the vertices as their angle points, such that these three lines intersect at a single point. How many ways are there to draw these lines?

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

答案：C

8. 一個數字的個位數是 3，當它的個位數與十位數交換位置後，得到的數比原數小 36。那麼該數是多少？

Given a number whose units digit is 3, when the units digit and tens digit are swapped, the resulting number is 36 smaller than the original number. What is the number?

- A. 63
- B. 73
- C. 83
- D. 93

答案：B

9. 有一個數字序列是 2, 5, 10, 17, 26, ...，按照這個規律，第六個數字是多少？

There is a number sequence: 2, 5, 10, 17, 26, ... According to this pattern, what is the sixth number?

- A. 37
- B. 43
- C. 50
- D. 35

答案：A

10. 一個籃子裏的蘋果，如果每次取出 5 個，最後剩下 2 個；如果每次取出 7 個，就會少 5 個。這個籃子裏至少有多少個蘋果？（In a basket of apples, if you take out 5 at a time, there will be 2 left at the end; if you take out 7 at a time, there will be 5 less than a multiple of 7. What is the minimum number of apples in the basket?）

- A. 32
- B. 37
- C. 42
- D. 29

答案：B

11. Peter 用 16 元買了若干支筆，如果每支筆的價格降低 0.1 元，他就可以多買 2 支。原來每支筆的價格是多少元？

Peter bought several pens for 16 dollars. If the price of each pen decreases by 0.1 dollars, he can buy 2 more pens. What was the original price of each pen in dollars?

- A. 0.6
- B. 0.8
- C. 1.0
- D. 1.2

答案：B

12. 有 1 杯蘋果汁，Mr Lee 喝了半杯後，將它加滿水，然後他又喝了半杯，再加滿水，最後全部喝完。問，Mr Lee 喝的水多還是果汁多？（There is one cup of apple juice. Mr Lee drank half a cup, then refilled it with water. He drank half a cup again, refilled it with water, and finally drank it all. Did Mr Lee drink more water or more juice?）

- A. 水 Water.
- B. 果汁 Juice
- C. 一樣多 Same

答案：C

13. 去 Lily 家玩，她為我們做水果沙拉，她把 2 千克香蕉，3 千克蘋果，4 千克哈密瓜混合成什錦沙拉。已知香蕉每千克 8 元，蘋果每千克 11 元，哈密瓜每千克 17 元。問：莉莉做的什錦沙拉每千克（\_\_\_\_\_）錢？（When visiting Lily's house, she made a fruit salad for us. She mixed 2 kg of bananas, 3 kg of apples, and 4 kg of cantaloupe into the fruit salad. Given that bananas cost 8 dollars per kg, apples cost 11 dollars per kg, and cantaloupe costs 17 dollars per kg, what is the cost per kg of the mixed fruit salad?）

答案：13

1. 一個數字的個位數是 3，當它的個位數與十位數交換位置後，得到的數比原數小 36。那麼該數是多少？

Given a number whose units digit is 3, when the units digit and tens digit are swapped, the resulting number is 36 smaller than the original number. What is the number?

- A. 63
- B. 73
- C. 83
- D. 93

答案：B

2. 有一個數字序列是 2, 5, 10, 17, 26, ...，按照這個規律，第六個數字是多少？

There is a number sequence: 2, 5, 10, 17, 26, ... According to this pattern, what is the sixth number?

- A. 37
- B. 43
- C. 50
- D. 35

答案：A

3. 一個籃子裏的蘋果，如果每次取出 5 個，最後剩下 2 個；如果每次取出 7 個，就會少 5 個。這個籃子裏至少有多少個蘋果？（In a basket of apples, if you take out 5 at a time, there will be 2 left at the end; if you take out 7 at a time, there will be 5 less than a multiple of 7. What is the minimum number of apples in the basket?）

- A. 32
- B. 37
- C. 42
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答案：B

4. Peter 用 16 元錢買了若干支筆，如果每支筆的價格降低 0.1 元，他就可以多買 2 支。原來每支筆的價格是多少元？  
Peter bought several pens for 16 dollars. If the price of each pen decreases by 0.1 dollars, he can buy 2 more pens. What was the original price of each pen in dollars?

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- D. 1.2

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5. 有 1 杯蘋果汁，Mr Lee 喝了半杯後，將它加滿水，然後他又喝了半杯，再加滿水，最後全部喝完。問，Mr Lee 喝的水多還是果汁多？  
(There is one cup of apple juice. Mr Lee drank half a cup, then refilled it with water. He drank half a cup again, refilled it with water, and finally drank it all. Did Mr Lee drink more water or more juice?)

- A. 水 Water.
- B. 果汁 Juice
- C. 一樣多 Same

答案：C

6. 去 Lily 家玩，她為我們做水果沙拉，她把 2 千克香蕉，3 千克蘋果，4 千克哈密瓜混合成什錦沙拉。已知香蕉每千克 8 元，蘋果每千克 11 元，哈密瓜每千克 17 元。問：莉莉做的什錦沙拉每千克（\_\_\_\_）錢？  
(When visiting Lily's house, she made a fruit salad for us. She mixed 2 kg of bananas, 3 kg of apples, and 4 kg of cantaloupe into the fruit salad. Given that bananas cost 8 dollars per kg, apples cost 11 dollars per kg, and cantaloupe costs 17 dollars per kg, what is the cost per kg of the mixed fruit salad?)

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(Kelvin has 12 coins, one of which is a counterfeit that is lighter than the others. He only has a balance scale. What is the minimum number of weighing needed to find the counterfeit coin?)

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

答案：B

8. 一圓形跑道周長 300 米，A、B 兩人分別從直徑兩端同時出發，若反向而行 1 分鐘相遇，若同向而行 5 分鐘甲可以追上乙，A 速度為（\_\_\_\_）米/分、B 速度為（\_\_\_\_）米/分。  
(A circular track has a circumference of 300 meters. A and B start simultaneously from opposite ends of a diameter. If they walk in opposite directions, they meet after 1 minute. If they walk in the same direction, A catches up with B in 5 minutes. What are the speeds of A and B in meters per minute?)

答案 1：90

答案 2：60

9. AB 兩人同時從兩地出發，相向而行，距離是 100 千米。A 每小時行 6 千米，B 每小時行 4 千米，A 帶著一條狗，狗每小時行 10 千米。這只狗同 A 一道出發，碰到 B 的時候，它就掉頭朝著 A 這邊跑，碰到 A 的時候，它又掉頭朝著 B 這邊跑。直到兩人相遇時，這只狗一共跑了（\_\_\_\_）千米？  
(A and B start simultaneously from two different places

and walk towards each other. The distance between them is 100 kilometers. A walks at 6 km/h, B walks at 4 km/h, and A has a dog that runs at 10 km/h. The dog starts with A and runs towards B. When it meets B, it turns back and runs towards A, and when it meets A, it turns back towards B again. How many kilometers does the dog run in total by the time A and B meet?)

答案 1 : 100

10. 一個水池，甲管道單獨開需要 10 小時注滿，乙管道單獨開需要 12 小時注滿，如果兩個管道同時開放，大約需要多少時間注滿水池？(A pool can be filled in 10 hours by Pipe A alone and in 12 hours by Pipe B alone. If both pipes are opened together, around how long will it take to fill the pool?)

A. 6 hours

B. 7 hours

C. 5 hours and 30 minutes

D. 4 hours and 40 minutes

答案 : C

11. 一個正方形將其邊長增加 50%，新的面積是原面積的多少倍？(A square increases its side length by 50%. The new area is how many times the original area?)

A. 1.5

B. 2

C. 2.25

D. 3

答案 : C

12. 某班共有 45 名學生，參加興趣小組的情況是：參加數學小組的有 20 人，參加英語小組的有 15 人，兩項都參加的有 8 人。那麼，沒有參加這兩個興趣小組的學生有多少人？(There are 45 students in a class. The participation in interest groups is as follows: 20 students participate in the math group, 15 students participate in the English group, and 8 students participate in both groups. How many students do not participate in either of these two interest groups?)

A. 18

B. 15

C. 12

11

答案 : A

13. 一個數列的前三項是 2, 5, 10，從第四項開始，每一項是前三項的和。問第六項是多少？(The first three terms of a sequence are 2, 5, and 10. Starting from the fourth term, each term is the sum of the previous three terms. What is the sixth term?)

A. 56

B. 57

C. 58

D. 59

答案 : D

14. 某校安排學生宿舍，如果每間 5 人，則有 14 人沒有床位；如果每間 7 人，則多 4 個床位。該校有宿舍 ( ) 間。

學生(\_\_\_\_)人。(A school is arranging student dormitories. If 5 students are assigned to each room, 14 students will not have a bed; if 7 students are assigned to each room, there will be 4 extra beds. How many dormitory rooms does the school have, and how many students are there?)

答案 1 : 9

答案 2 : 59

15. 已知一艘輪船順水行 48 千米需 4 小時，逆水行 48 千米需 6 小時。現在輪船從上游 A 港到下游 B 港。已知兩港間的水路長為 72 千米。開船時一旅客從窗口扔到水裏一塊木板，問船到 B 港時，木板離 B 港還有 (\_\_\_\_) 千米？(A boat travels 48 kilometers downstream in 4 hours and 48 kilometers upstream in 6 hours. Now, the boat travels from upstream port A to downstream port B. The waterway between the two ports is 72 kilometers long. When the boat starts, a passenger throws a piece of wood into the water. How many kilometers is the wood from port B when the boat arrives at port B?)

答案 : 60

1. 一個水池，甲管道單獨開需要 10 小時注滿，乙管道單獨開需要 12 小時注滿，如果兩個管道同時開放，大約需要多少時間注滿水池？(A pool can be filled in 10 hours by Pipe A alone and in 12 hours by Pipe B alone. If both pipes are opened together, around how long will it take to fill the pool?)

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2. 一個正方形將其邊長增加 50%，新的面積是原面積的多少倍？(A square increases its side length by 50%. The new area is how many times the original area?)

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B. 2

C. 2.25

D. 3

答案 : C

3. 某班共有 45 名學生，參加興趣小組的情況是：參加數學小組的有 20 人，參加英語小組的有 15 人，兩項都參加的有 8 人。那麼，沒有參加這兩個興趣小組的學生有多少人？(There are 45 students in a class. The participation in interest groups is as follows: 20 students participate in the math group, 15 students participate in the English group, and 8 students participate in both groups. How many students do not participate in either of these two interest groups?)

A. 18

B. 15

C. 12

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答案 : A

4. 一個數列的前三項是 2, 5, 10，從第四項開始，每一項是前三項的和。問第六項是多少？(The first three terms of a

sequence are 2, 5, and 10. Starting from the fourth term, each term is the sum of the previous three terms. What is the sixth term?)

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- B. 57
- C. 58
- D. 59

答案：D

5.某校安排學生宿舍，如果每間 5 人，則有 14 人沒有床位；如果每間 7 人，則多 4 個床位。該校有宿舍（\_\_\_\_）間，學生（\_\_\_\_）人。(A school is arranging student dormitories. If 5 students are assigned to each room, 14 students will not have a bed; if 7 students are assigned to each room, there will be 4 extra beds. How many dormitory rooms does the school have, and how many students are there?)

答案 1：9

答案 2：59

6.已知一艘輪船順水行 48 千米需 4 小時，逆水行 48 千米需 6 小時。現在輪船從上游 A 港到下游 B 港。已知兩港間的水路長為 72 千米，開船時一旅客從窗口扔到水裏一塊木板，問船到 B 港時，木板離 B 港還有（\_\_\_\_）千米？(A boat travels 48 kilometers downstream in 4 hours and 48 kilometers upstream in 6 hours. Now, the boat travels from upstream port A to downstream port B. The waterway between the two ports is 72 kilometers long. When the boat starts, a passenger throws a piece of wood into the water. How many kilometers is the wood from port B when the boat arrives at port B?)

答案：60

7.一圓形跑道周長 300 米，A、B 兩人分別從直徑兩端同時出發，若反向而行 1 分鐘相遇，若同向而行 5 分鐘甲可以追上乙，A 速度為（\_\_\_\_）米/分、B 速度為（\_\_\_\_）米/分。(A circular track has a circumference of 300 meters. A and B start simultaneously from opposite ends of a diameter. If they walk in opposite directions, they meet after 1 minute. If they walk in the same direction, A catches up with B in 5 minutes. What are the speeds of A and B in meters per minute?)

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答案 1：100

9.媽媽去超市買洗衣粉，A 和 B 的單價分別是 8 元和 10 元，媽媽帶的錢買 A 洗衣粉比買 B 洗衣粉可多買 3 袋，並且沒有剩餘的錢。問媽媽帶了（\_\_\_\_）錢？(Mom goes to the supermarket to buy detergent. The unit prices of detergent A and B are 8 dollars and 10 dollars, respectively. With the money she brought, she can buy 3 more bags of detergent A than detergent B, and there is no money left. How much money did she bring?)

答案 1 : 120

10.個正方形紙片的邊長為 4 厘米。如果將其剪成 4 個完全相同的小正方形。那麼每個小正方形的周長是多少厘米？ ( A square piece of paper has a side length of 4 centimeters. If it is cut into 4 identical smaller squares, what is the perimeter of each smaller square in centimeters?)

- A. 4
- B. 8
- C. 12
- D. 16

答案 : B

11.一個正方形的邊長增加 2 厘米後。新的正方形面積比原正方形面積大 36 平方厘米。原正方形的邊長是？ ( The side length of a square is increased by 2 centimeters, and the area of the new square is 36 square centimeters larger than the area of the original square. What is the side length of the original square?)

- A. 7
- B. 8
- C. 9
- D. 10

答案 : B

12.Trump 從家到學校時。前一半路程步行後一半路程乘車。從學校回家時。前 1/3 時間乘車。後 2/3 時間步行。結果去學校的時間比回家所用的時間多 2 小時。已知 Trump 步行的速度為每小時 5 千米。乘車速度為每小時 15 千米。那麼 Trump 從家到學校的路程是 (\_\_\_\_) 千米？ (Trump walks the first half of the distance from home to school and takes a car for the second half. On his way back from school to home, he takes a car for the first third of the time and walks for the remaining two-thirds. As a result, the time taken to go to school is 2 hours more than the time taken to come back home. Given that Trump's walking speed is 5 km/h and his driving speed is 15 km/h, what is the distance from home to school (in kilometers)?)

答案 : 150

13.同樣走 100 米。Biden 要走 180 步。Kelvin 要走 120 步。Biden 和 Kelvin 同時同方向從同一地點出發。如果每走一步所用的時間相同。那麼 Kelvin 走出 450 米後往回走。還要走 (\_\_\_\_) 步才能遇到 Biden？ (Biden needs 180 steps to walk 100 meters, while Kelvin needs 120 steps to walk the same distance. Biden and Kelvin start walking from the same point in the same direction at the same time, with each step taking the same amount of time. How many steps will Kelvin need to walk back to meet Biden after walking 450 meters forward?)

答案 : 108