

On opposite sides of a street, there are 45 streetlights, each one at a distance of 30 yards from the other fill a gap between two other street lights on the opposite side. How long is the street?



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1

Two trains are on a head on collision course. The trains are currently 65 miles apart. The north bound train is travelling at 55 miles per hour and the south bound train is travelling at 80 miles per hour. What is the distance between the trains two minutes before they collide?

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2

Eggs double in a basket every minute. There is one egg in a basket. In one hour the basket is completely filled with eggs.

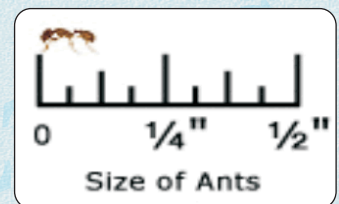


How many minutes did it take to fill half of the basket?

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3

An ant decides to race along a ruler, starting at the 12-inch end. It runs from the 12-inch mark to the 6-inch mark in 12 seconds.

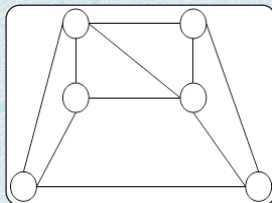


How much time will it take to reach the 1-inch mark ?

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4

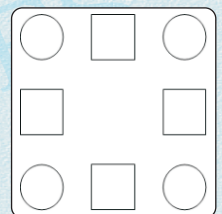
Using number 1,2,3,4,5 and 6 put each of them in a circle. There is only one condition. The circle connected by a line cannot have consecutive numbers. For example, 3 cannot be connected with 2 or 5.



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5

Using the numbers from 1 to 8, place one in each shape with one condition: The number in each square has to be the sum of its two neighboring circles.



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6

I am looking at my watch. From this moment on, the hour hand will take exactly three times longer than the minute hand to reach the number six.

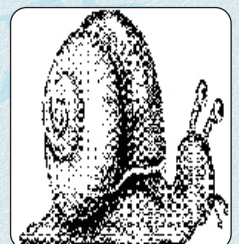


What time is it?

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7

The snail is at the bottom of a well and wants to get out. He manages to crawl up the wall three feet each day, but at night he must rest and so he slips back down two feet. If the wall is thirty feet deep, how long will it take him to get out?

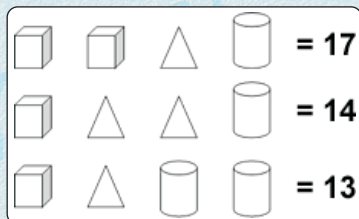


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8



How many pounds does each cube, pyramid and cylinder weigh when each row has combined weight indicated as given below?



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9

You are given 2 identical ropes such that if you burn the rope from one end it takes 60 minutes to burn completely. How can you determine a time span of 30 minutes, 45 minutes using this rope without cutting or folding the rope?



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10

Fix the numbers from 1 to 8 in eight boxes in such a way that consecutive numbers will not be adjacent horizontally, vertically, diagonally.



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11

When manufacturing bars of soap, the cutting machine produces scraps. The scraps from 11 bars of soap can be made into one extra bar. What is the total number of bars that can be made after cutting 250 bars of soap?

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12

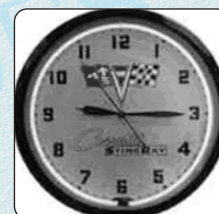


A lady gave  $\frac{1}{2}$  of her stock of oranges she had and half the orange extra to the 1st customer. Half of her remaining stock and half the orange extra she gave to the second customer. She is left with 15 oranges now. Find the number of oranges she had at first?

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13

Divide the face of the clock into 6 parts such that sum of each number in each part is the same.



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14

On a stretch of road 75 miles long, two trucks approach each other. Truck A is driving 40 miles per hour while truck B is driving 80 miles per hour. What is the distance between the two trucks one-minute before their head-on collision?



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15

John and Greg are two friends. John is slim where as Greg is healthy. John asked Greg about his weight. He therefore hesitated and at last revealed his weight by giving John a riddle. "I weigh 56 kg plus half of my weight", he said. Can you figure out Greg's weight?



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16



A fish is fifteen inches long. Its head is as long as its tail. If the head were twice as long as it really is, the head and tail would together be as long as what's in between. How long is each part of the fish?

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17

Mom, Dad and 2 kids have come to a river, and they find a boat. It is small and can carry one adult or 2 kids at a time. Both kids are good rowers, but how can the whole family reach the other side of the river?



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18

Several cartons of candy are being shipped from a manufacturer to warehouses where they will be prepackaged to sell to stores. The candy in each carton needs to be divided equally among 3, 4, 5, or 7 stores. What is the least number of pieces of candy that each carton can have?

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19

Students at Monty High with a class size under of 30 took a math test. One third of the class got a "B", one quarter a "B-", one sixth a "C", and one eighth failed. The remainder of the students got an "A" How many students got an "A"?

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20

What is the number that is 5 more than the number which is one-fifth of one-fifth of one-half of 1050?

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21

Kerry loves toffees. He can eat 32 of them in an hour. His brother Pete needs 3 hours to eat the same amount. How long will it take for both together to eat 32 toffees.



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22

A box of candy bars can be divided equally (without cutting anything) among 2, 3, or 7 people.

What is the least number of candy bars the box could contain?

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23

Can you find four consecutive prime numbers that add up to 220?

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24



When the two met, one was half the other's age plus seven years. Ten years later, when they married, the bride was thirty, but this time one was nine-tenths the age of the other. How old was the groom? (no fractions, no partial years---whole numbers only.)

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25

Mona and Allen went shopping for groceries. They spent half of what they had plus \$2.00 at the butcher shop. At the dairy, they spent half of what was left, plus \$5.00. At the bakery, they spent half of what was left. The remaining \$5.00 was spent on coffee and cake. How much did they start with?

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26

The following number is the only one of its kind. Can you figure out what is so special about it? 8,549,176,320

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27

Jennifer took a test that had 20 questions. The total grade was computed by awarding 10 points for each correct answer and deducting 5 points for each incorrect answer. Jennifer answered all 20 questions and received a score of 125.

How many wrong answers did she have?

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28

What is the missing number in this arrangement?

1	2	3	4	5
1	3	7	15	31
1	4	13	40	121
1	5	21	85	???

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29

Sheilah is now two-thirds of Sally's age. In six years, Sheilah will be four-fifths of Sally's age. In 15 years, Sheilah will be seven-eighths as old as sister Sally. If they are both under the age of ten, how old are they now?

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30

If I buy an apple and a banana, the cost will be \$1.19. If I buy an apple and a pear, the cost will be \$1.45. If I buy a banana and a pear, the cost will be \$1.40. What are the individual prices?

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31

A car company sold 150 cars in a special 6-day tent sale offer. Each day the company sold 6 more cars than the day before. How many cars were sold on the 6th day?

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32



Which number when added to  $\frac{5}{4}$  gives the same result as when it is multiplied  $\frac{5}{4}$ ?

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**33**

Fill in the missing numbers in the following series:

101 99 102 98 103 97 ? ?

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**34**

Take the number of your fingers (10) multiplied by the number of you toes (10) divided by one half and add it to the number of months in a year.

What is the total?

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**35**

Find an integer between 100 and 200 such that each digit is odd and the sum of the cubes of the digits is equal to the original 3-digit number.

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**36**

When a square piece of paper is folded in half vertically, the resulting rectangle has a perimeter of 39 cm. In square cm, find the area of the original square sheet of paper

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**37**

How many integers in the set  $\{100, 101, 102, 103, \dots, 999, 1000\}$  do not contain any odd digits?

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**38**

Trevor notices a bag of gumballs that sell for \$3.00 at a candy store. He wonders if this is a good deal for gumballs so he asks the clerk how many gumballs come in the bag. The clerk says, "Less than 100 come in the bag. Also, if you counted the gum by twos, threes, or fours, one gumball would be left over, but none if you counted by fives."

If the bag contains greater than 30 gumballs, how many are in the bag?

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**39**

Imagine you are in a room that has no windows, doors, or openings to let in any outside light. The only light in this otherwise totally dark room is a digital clock.

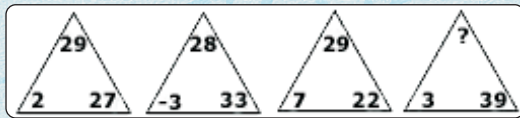
At what time will the room be the brightest?

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**40**



Observe the numbers in each of the above triangles. Determine the missing number in the last triangle.



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41

The day September 18th has an interesting trait. Notice that September is the 9th month.

Therefore the 18th day is a multiple of the 9th month.

How many days in a year are multiples of their month number?

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42

You begin walking on a road. You travel 54 feet during the first minute, 63 feet the second minute, 72 feet the third minute, etc.

If the total time you traveled is 14 minutes, in feet how far did you walk?

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43

**986420 – 1357**

In the above expression, each digit (0-9) is used once and only once. The difference between the above numbers is 985063. What is the minimum positive difference that can be determined from two whole numbers using each digit once and only once between the two numbers? (In other words, only ten digits can be used for the entire expression).

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44

A soda manufacturer decided to produce two-liter glass bottles of soda. The retail price of the bottle with the soda is \$1.10. If the bottle costs \$1.00 more than the soda, how much in cents does the soda cost without the glass bottle?

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