

## ROUND 9

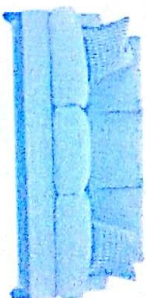
### EXAM 1 Gird Ins

Fill in the blanks with the correct answers to answer 10 questions below.



**Question 1.** Jane buy a couch. A couch costs 950 dollars. She receives a 30% discount. How much money of the discount does she get?

Answer: She gets ..... dollars discount.



**Question 2.** The perimeter of a circle is 21.98dm. Its area is .....cm<sup>2</sup>.

**Question 3.** Fill in the blank with the correct number:

$$7.625\text{m}^3 = \dots\dots\text{cm}^3$$

**Question 4.** Fill in the blank with the correct number:

$$\frac{76}{250}\text{dm}^3 = \dots\dots\text{cm}^3$$

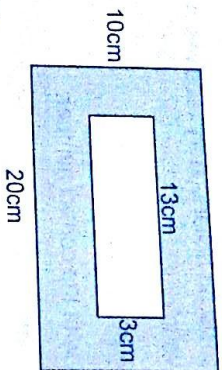
**Question 5.** The ratio of the number of girls to the number of boys in a classroom were 5 : 4. When 10 girls left the classroom, the ratio of the number of boys to the number of girls became 4 : 3. How many students were in the classroom at first?

Answer: There were ..... students in the classroom at first.

**Question 8.** Mrs. Jane bought 2kg of grapes and 3kg of apples and had to pay \$14.92. Mrs. Anna bought 6kg of apples and 5kg of grapes and had to pay \$33.13. How much does one kilogram of grapes cost?

Answer: One kilogram of grapes cost \$.....

**Question 9.** The area of the shaded region is .....cm<sup>2</sup>.



**Question 10.** Calculate:

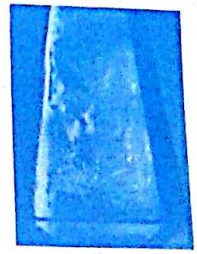
$$2.73 + 4.23 + 5.73 + 7.23 + 8.73 + 10.23 + 11.73 + 13.23 + 14.73 + 16.23 + 17.73$$

The result is .....



**Question 6.** An aquarium is 7dm deep, 15dm long and 0.3m wide. What is the volume of the aquarium in cubic centimeters?

Answer: The volume of the aquarium is .....cm<sup>3</sup>.

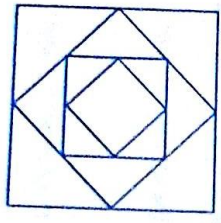


**Question 7.** The area of a rectangle is 70m<sup>2</sup>. If its length is increased by 10% and its width is decreased by 20% then the area of the new rectangle is .....m<sup>2</sup>.

**Question 8.** Anna has an average score 75 on 8 different tests. If the lowest score is removed then her average rises to 80. What is her lowest score?

Answer: Her lowest score is .....

**Question 9.** The sum of area of all squares in the following figure is 56250dm<sup>2</sup>. The area of the smallest square is .....cm<sup>2</sup>.



**Question 10.** At a party 60% of the boys are dancing with 90% of the girls. How many people are dancing if there are 50 people? (A pair includes only one boy and one girl).

Answer: There are ... people.



**EXAM 2 Golden Frog**

Choose the correct answer in 4 available answers.



**Question 1.** Which fraction is equal to 17.5%?

The correct answer is

- A  $\frac{175}{100}$
- B  $\frac{35}{20}$
- C  $\frac{7}{40}$
- D  $\frac{35}{50}$

**Question 2.** Mia want to buy apple. Which is the best buy?

- A 7kg of apples for \$30.38
- B 5kg of apples for \$21.5
- C 6kg of apples for \$26.1
- D 4kg of apples for \$17.32

**Question 3.** Peter counts his heart rate. He counts 8 beats per 6 seconds on average. How many beats per minute does Peter count?

Answer: Peter counts ..... beats per minute.



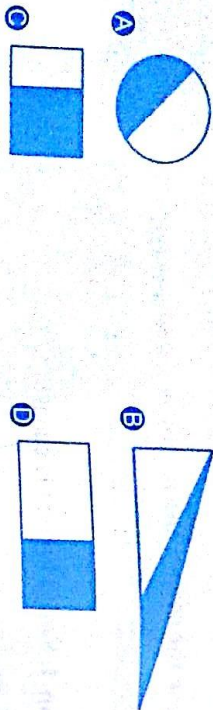
- A 80
- B 75
- C 60
- D 140

**Question 4.** Choose the calculation that has the greatest result.

- A  $196.4 : 4 - 7.07$
- B  $59.8 : 2 + 26.13$
- C  $365.5 : 5 - 17.8$
- D  $125.7 : 3 + 14.3$



Question 5. Which of the following shapes is colored more than 50%?



Question 6. If number A is increased by 60% then it will equal number B. How much percentage will B be decreased by to equal A?

Answer: B will be decreased by ....

- A 60%   
  B 37.5%   
  C 62.5%   
  D 40%

Question 7. The product:  $20 \times 21 \times 22 \times \dots \times 40$  has ..... digit 0.

Choose the correct number fill in the blank.

- A 5   
  B 4   
  C 3   
  D 2

Question 8. How many fractions equal  $\frac{1}{5}$  and have denominators of 2-digit numbers?

Answer: There are .....

- A 16 numbers   
  B 18 numbers  
 C 22 numbers   
  D 20 numbers

Question 9. Calculate:  $\frac{1}{6} + \frac{1}{12} + \frac{1}{24} + \dots + \frac{1}{768}$ .

The result is:

- A  $\frac{255}{256}$    
  B  $\frac{711}{768}$    
  C  $\frac{85}{256}$    
  D  $\frac{767}{768}$

Question 10. Find the smallest number that is 7 times the sum of its digits?

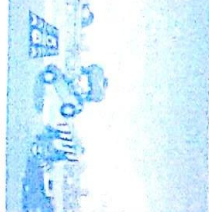
Answer: This number is .....

- A 14   
  B 28   
  C 42   
  D 21

EXAM 3

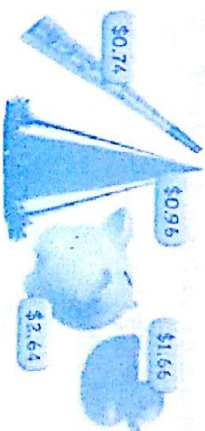
Jump Over

You have to drive your car passing 10 obstacles to finish. In order to overcome each obstacle, you have to answer correctly one question in that obstacle. Are you ready?



Question 1. How much money would you need to buy the two most expensive toys?

Answer: \$.....



Question 2. Calculate:  $5.5 \times (3.5 - 1.5) + 1.5$ .

The result is .....

Question 3. Find x such that  $x \times 8.6 - 5.2 \times x - 11.06 = 5.94$ .

Question 4. Jim Smith drinks a magic potion that reduces his weight by half. He was 135kg before, so how heavy is he now?

Answer: He is .....kg now.

Question 5. Bill has \$40 in a saving account. The interest rate is 5% per month (interest on this month is not added to capital for the next month). How much will Bill have in one year (both capital and interest)?

Answer: He has \$..... in one year.

Question 6. Calculate:  $\frac{1}{5} + \frac{7}{11} + \frac{5}{13} + 4 \times \left( \frac{1}{5} + \frac{1}{11} \right) + \frac{21}{13}$ .

The result is .....

Question 7. Find the smallest sum of two numbers if their product is 100.

Answer: The sum is .....



**Question 8.** Find the smallest 6-digit number where only two digits are the same?

Answer: This number is .....

**Question 9.** The perimeter of the shape is ..... cm.



**Question 10.** Find  $m$  and  $n$  such that:  $23 \times 24 \times 15 \times 16 \times m = 9n7360$ .

Answer: The value of  $m$  is .....

The value of  $n$  is .....

## ROUND 10

### EXAM 1 Golden Frog

Choose the correct answer in 4 available answers.



**Question 1.** 15% of 1080kg = .....g.

Choose the correct number fill in the blank.

- A 162       B 7200       C 162000       D 7200000

**Question 2.** Calculate:  $3.54 + 1.12 + 0.98 + 2.3$ .

The result is .....

- A 7.94       B 5.36       C 6.74       D 7.49

**Question 3.** Find the smallest number that the sum of its digits is 15.  
Answer: This number is .....

- A 159       B 69       C 168       D 177

**Question 4.** Find  $x$  such that  $x \times 3 \frac{1}{15} - \frac{7}{9} = 2 \frac{1}{3}$ .

The value of  $x$  is:

- A  $\frac{1288}{135}$        B  $\frac{3864}{405}$        C  $1 \frac{1}{69}$        D  $1 \frac{1}{135}$

**Question 5.** Now, Peter's father is 36 years old and he is 11 years old. ... years ago, Peter's father was six times as old as him.

The missing number is:

- A 3       B 4       C 5       D 6

**Question 6.** If the sum of two natural numbers is 463 and there are eighteen odd numbers between these numbers then the less number is:

- A 213       B 123       C 435       D 453

**Question 7.** Find  $m$  if  $\frac{1}{4} < \frac{m+2}{15} < \frac{17}{60}$ .

Answer:  $m =$  .....

- A 2       B 14       C 4       D 16

**Question 8.** Find  $y$  such that:

$$\left( \frac{1}{2 \times 4} + \frac{1}{4 \times 6} + \frac{1}{6 \times 8} + \dots + \frac{1}{98 \times 100} \right) : y = \frac{147}{50}$$

Answer: The value of  $y$  is

- A  $\frac{1}{2}$        B  $\frac{1}{3}$        C  $\frac{1}{4}$        D  $\frac{1}{12}$

**Question 9.** The surface area of a cube is  $864 \text{ cm}^2$ . The volume of this cube is .....

- A  $1258 \text{ cm}^3$        B  $4291 \text{ cm}^3$        C  $1728 \text{ cm}^3$        D  $3456 \text{ cm}^3$

**Question 10.** Find the last digit of  $A = 11 \times 21 \times 31 \times \dots \times 71 + 9 \times 19 \times 29 \times \dots \times 89$ .

Answer: The last digit of  $A$  is .....

- A 4       B 3       C 2       D 0



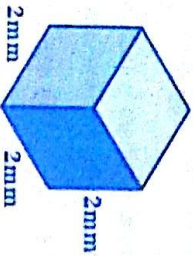
**EXAM 2** Grid Ins

Fill in the blanks with the correct answers to answer 10 questions below.



Question 1. If  $\frac{144}{17} \times \frac{34}{12} < n < \frac{169}{34} \div \frac{13}{68}$  and  $n$  is a natural number then  $n = \dots\dots$

Question 2. What is the volume of this cube in  $\text{cm}^3$ ?



Answer: The volume of this cube is  $\dots\dots \text{cm}^3$ .

Question 3. Find  $x$  if  $x$  is a natural number and  $0.6 \times 7.5 < x < 3.5 \times 1.6$ .

Answer:  $x = \dots\dots$

Question 4. Fill in the blank with the correct number

$$34\text{m}^2 \cdot 27\text{cm}^2 + 27\text{m}^2 \cdot 20\text{dm}^2 = \dots\dots \text{dm}^2.$$

Question 5. Bella ate lunch at a restaurant. The total cost of her lunch is \$55. She left a 10% tip. What was her bill for lunch?

Answer: Bella's bill was \$.....

Question 6. How many 2-digit numbers have a sum of the digits equal 12?

Answer: There are ..... such numbers.

Question 7. The sum of four consecutive natural number is 954. Find the greatest number.

Answer: The greatest number is .....

Question 8. Find  $n$  such that:

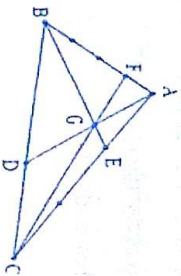
$$\frac{2}{3} + \frac{2}{15} + \frac{2}{35} + \dots\dots + \frac{2}{n} = \frac{322}{323}.$$

Answer:  $n = \dots\dots$

Question 9. Look at the following figure.

$$\frac{FA}{BA} = \frac{1}{4}; \frac{EA}{CA} = \frac{1}{3}.$$

If the area of triangle GBD is  $270\text{m}^2$  then the area of the triangle GCD is  $\dots\dots \text{m}^2$ .



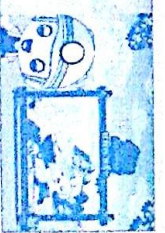
Question 10. Find  $K$  such that:

$$K - 2016 = \frac{1 + (1+2) + (1+2+3) + \dots\dots + (1+2+3 + \dots\dots + 2017)}{2017 \times 1 + 2016 \times 2 + 2015 \times 3 + \dots\dots + 2 \times 2016 + 1 \times 2017}.$$

Answer:  $K = \dots\dots$

**EXAM 3** Treasure Hunting

Let's help the miner to go through the maze by answering 10 questions to reach the destination.



Question 1. Find  $m$  if  $m$  is a natural number and  $m \times 2 + 1 < 1.28 \times 4 < 3 \times m$ .

Answer:  $m = \dots\dots$

Question 2. If  $x$  is a natural number and  $\frac{4728}{100} < x$  then the least value of  $x$  is .....

Question 3. Peter wrote consecutive numbers from 8 to 723. How many digits did he write?

Answer: There were ..... digits.



## PART II. ANSWER

### ROUND 1

#### TEST 1

#### EXAM 1.

|          |   |   |   |   |   |   |   |   |   |    |
|----------|---|---|---|---|---|---|---|---|---|----|
| Question | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Answer   | A | D | B | D | C | C | B | A | C | A  |

#### EXAM 2.

|          |   |                   |                |   |     |    |               |   |   |                |
|----------|---|-------------------|----------------|---|-----|----|---------------|---|---|----------------|
| Question | 1 | 2                 | 3              | 4 | 5   | 6  | 7             | 8 | 9 | 10             |
| Answer   | 2 | $\frac{273}{231}$ | $\frac{31}{4}$ | > | 400 | 36 | $\frac{1}{5}$ | 3 | 9 | $\frac{9}{31}$ |

#### EXAM 3.

14 → 19 → 9 → 20 → 8 → 1 → 17 → 18 → 6 → 15  
 → 7 → 4 → 5 → 10 → 3 → 11 → 16 → 12 → 13 → 2

#### TEST 2

#### EXAM 1.

|          |   |   |   |   |   |   |   |   |   |    |
|----------|---|---|---|---|---|---|---|---|---|----|
| Question | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Answer   | B | D | D | B | A | C | A | B | C | C  |

**Question 4.** The average of 4 consecutive even numbers is 123. Find the least number.

Answer: The least number is .....

**Question 5.** How many 4-digit numbers are divisible by 2, 3 and 5?

Answer: There are ..... numbers.

**Question 6.** The length of a rectangle is 7.5cm longer than its width and its perimeter is three times as long as its length. Find its area.

Answer: The area of the rectangle is .....cm<sup>2</sup>.

**Question 7.** Find  $\overline{abcd}$  such that  $\overline{dad} = \overline{abc} \times 5$ .

Answer:  $\overline{abcd} = \dots\dots$

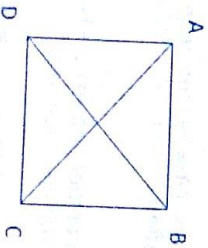
**Question 8.** The average of three numbers is 32. The second number is two times the first number and the third number is six units more than the second number. Find the first number.

Answer: The first number is .....

**Question 9.** Calculate:  $\frac{1}{1+2} + \frac{1}{1+2+3} + \frac{1}{1+2+3+4} + \dots + \frac{1}{1+2+3+\dots+100}$ .

Answer: The result is .....

**Question 10.** Find the area of the square ABCD if the sum of area of all triangle in the figure is 1704cm<sup>2</sup>.



Answer: The area of the square ABCD is .....cm<sup>2</sup>.



**EXAM 2.**

|          |               |    |                  |    |   |   |   |    |     |    |
|----------|---------------|----|------------------|----|---|---|---|----|-----|----|
| Question | 1             | 2  | 3                | 4  | 5   | 6 | 7 | 8  | 9   | 10 |
| Answer   | $\frac{4}{5}$ | 24 | $\frac{75}{100}$ | 10 | $\frac{1}{2}, \frac{3}{5}, \frac{4}{9}, \frac{10}{7}$ | 2 | = | 14 | 360 | 1  |

**EXAM 3.**

13 → 6 → 4 → 16 → 19 → 15 → 1 → 18 → 8 → 10  
 → 2 → 9 → 12 → 7 → 14 → 20 → 11 → 5 → 17 → 3.

**ROUND 2**

**TEST 1**

**EXAM 1.**

1 and 12; 2 and 11; 3 and 8; 4 and 17; 5 and 18;  
 6 and 14; 7 and 20; 9 and 19; 10 and 15; 13 and 16.

**EXAM 2.**

|          |    |               |      |                                |     |    |                 |   |       |                 |
|----------|----|---------------|------|--------------------------------|-----|----|-----------------|---|-------|-----------------|
| Question | 1  | 2             | 3    | 4                              | 5   | 6  | 7               | 8 | 9     | 10              |
| Answer   | 60 | $\frac{3}{7}$ | 5005 | $\frac{23}{21}, \frac{27}{24}$ | 325 | 37 | $\frac{12}{15}$ | - | 10059 | $\frac{101}{3}$ |

**EXAM 3.**

|          |                 |   |                 |    |    |      |      |                  |   |    |
|----------|-----------------|---|-----------------|----|----|------|------|------------------|---|----|
| Question | 1               | 2 | 3               | 4  | 5  | 6    | 7    | 8                | 9 | 10 |
| Answer   | $\frac{19}{42}$ | < | $\frac{29}{21}$ | 50 | 12 | 1495 | 6300 | $\frac{97}{198}$ | 5 | 4  |

**TEST 2**

**EXAM 1.**

1 and 12; 2 and 19; 3 and 16; 4 and 14; 5 and 18;  
 6 and 17; 7 and 13; 8 and 9; 10 and 15; 11 and 20.

**EXAM 2.**

|          |                |   |   |                |                |       |                 |                   |     |    |
|----------|----------------|---|---|----------------|----------------|-------|-----------------|-------------------|-----|----|
| Question | 1              | 2 | 3 | 4              | 5              | 6     | 7               | 8                 | 9   | 10 |
| Answer   | $\frac{7}{45}$ | C | D | $\frac{22}{3}$ | $\frac{2}{35}$ | 21000 | $\frac{13}{10}$ | $\frac{270}{250}$ | 103 | 30 |

**EXAM 3.**

|          |                |    |               |   |                 |    |      |    |               |    |
|----------|----------------|----|---------------|---|-----------------|----|------|----|---------------|----|
| Question | 1              | 2  | 3             | 4 | 5               | 6  | 7    | 8  | 9             | 10 |
| Answer   | $\frac{31}{6}$ | 48 | $\frac{3}{5}$ | × | $\frac{56}{15}$ | 39 | 3075 | 14 | $\frac{4}{6}$ | =  |

**ROUND 3**

**TEST 1**

**EXAM 1.**

|          |                 |                 |               |    |               |     |   |                     |   |       |
|----------|-----------------|-----------------|---------------|----|---------------|-----|---|---------------------|---|-------|
| Question | 1               | 2               | 3             | 4  | 5             | 6   | 7 | 8                   | 9 | 10    |
| Answer   | $\frac{79}{20}$ | $\frac{11}{15}$ | $\frac{1}{2}$ | 39 | 1008;<br>1007 | 334 | 5 | 318;<br>320;<br>322 | 4 | 42857 |



**EXAM 2.**

6 → 13 → 4 → 7 → 18 → 12 → 19 → 10 → 1 → 15  
 → 9 → 20 → 2 → 17 → 11 → 3 → 16 → 5 → 8 → 14.

**EXAM 3.**

|          |   |   |   |   |   |   |   |   |   |    |
|----------|---|---|---|---|---|---|---|---|---|----|
| Question | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Answer   | B | D | A | C | B | A | C | A | D | D  |

**TEST 2****EXAM 1.**

|          |                |    |                 |    |                 |   |    |   |   |    |
|----------|----------------|----|-----------------|----|-----------------|---|----|---|---|----|
| Question | 1              | 2  | 3               | 4  | 5               | 6 | 7  | 8 | 9 | 10 |
| Answer   | $\frac{26}{5}$ | 60 | $\frac{47}{15}$ | 28 | $\frac{17}{35}$ | = | 10 | 6 | 5 | 12 |

**EXAM 2.**

1 → 12 → 13 → 19 → 4 → 11 → 5 → 10 → 20 → 2  
 → 17 → 7 → 18 → 9 → 15 → 6 → 16 → 3 → 14 → 8.

**EXAM 3.**

|          |   |   |   |   |   |   |   |   |   |    |
|----------|---|---|---|---|---|---|---|---|---|----|
| Question | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Answer   | B | D | D | C | C | A | A | B | D | C  |

**ROUND 4****TEST 1****EXAM 1.**

|          |   |   |   |   |   |   |   |   |   |    |
|----------|---|---|---|---|---|---|---|---|---|----|
| Question | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Answer   | B | C | B | D | A | D | A | D | A | A  |

**EXAM 2.**

|          |   |   |      |      |      |        |       |    |        |    |
|----------|---|---|------|------|------|--------|-------|----|--------|----|
| Question | 1 | 2 | 3    | 4    | 5    | 6      | 7     | 8  | 9      | 10 |
| Answer   | 7 | 5 | 3.04 | 3.24 | 7.99 | 2.5357 | 42:30 | 20 | 0.1234 | 8  |

**EXAM 3.**

|          |   |   |  |      |        |       |      |   |   |     |
|----------|---|---|--|------|--------|-------|------|---|---|-----|
| Question | 1 | 2 | 3                                      | 4    | 5      | 6     | 7    | 8 | 9 | 10  |
| Answer   | 5 | > | 3.45;<br>4.06;<br>4.6;<br>5.03;<br>5.3 | 4.35 | 37.254 | 40.57 | 22.1 | 3 | = | 3.4 |

**TEST 2****EXAM 1.**

|          |   |   |   |   |   |   |   |   |   |    |
|----------|---|---|---|---|---|---|---|---|---|----|
| Question | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Answer   | A | C | B | B | C | D | B | B | A | B  |



**EXAM 2.**

|          |   |       |       |   |       |      |        |         |     |    |
|----------|---|-------|-------|---|-------|------|--------|---------|-----|----|
| Question | 1 | 2     | 3     | 4 | 5     | 6    | 7      | 8       | 9   | 10 |
| Answer   | 5 | 4.015 | 29.14 | < | 11.41 | 4.53 | 22.248 | 23 : 24 | 6.7 | 8  |

**EXAM 3.**

|          |   |   |      |       |   |        |        |   |   |       |
|----------|---|---|------|-------|---|--------|--------|---|---|-------|
| Question | 1 | 2 | 3    | 4     | 5 | 6      | 7      | 8 | 9 | 10    |
| Answer   | 1 | = | 7.02 | 7.025 | > | 13.091 | 125.78 | > | 3 | 10:12 |

**ROUND 5****TEST 1****EXAM 1.**

|          |   |   |   |   |   |   |   |   |   |    |
|----------|---|---|---|---|---|---|---|---|---|----|
| Question | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Answer   | A | B | D | C | B | D | C | A | C | C  |

**EXAM 2.**

|          |        |      |       |        |     |   |     |   |   |     |
|----------|--------|------|-------|--------|-----|---|-----|---|---|-----|
| Question | 1      | 2    | 3     | 4      | 5   | 6 | 7   | 8 | 9 | 10  |
| Answer   | 34.373 | 12.7 | 27.79 | 27.405 | 2.7 | < | 4.3 | 8 | 6 | 3.6 |

**EXAM 3.**

12 → 17 → 6 → 4 → 19 → 9 → 11 → 14 → 1 → 16  
 → 7 → 20 → 13 → 3 → 18 → 8 → 2 → 15 → 5 → 10.

**TEST 2****EXAM 1.**

|          |   |   |   |   |   |   |   |   |   |    |
|----------|---|---|---|---|---|---|---|---|---|----|
| Question | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Answer   | B | B | A | C | D | C | A | D | B | C  |

**EXAM 2.**

|          |       |     |    |       |       |       |      |   |       |       |
|----------|-------|-----|----|-------|-------|-------|------|---|-------|-------|
| Question | 1     | 2   | 3  | 4     | 5     | 6     | 7    | 8 | 9     | 10    |
| Answer   | 118.2 | 7.8 | 93 | 10.12 | 27.45 | 17.25 | 5.46 | 5 | 29.64 | 121.5 |

**EXAM 3.**

2 → 17 → 12 → 9 → 14 → 7 → 19 → 16 → 4 → 3  
 → 20 → 6 → 18 → 8 → 10 → 11 → 1 → 13 → 15 → 5.

**ROUND 6****TEST 1****EXAM 1:**

7 and 10 ; 19 and 4 ; 13 and 12 ; 5 and 20 ; 15 and 2 ;  
 17 and 8 ; 18 and 3 ; 16 and 6 ; 9 and 14 ; 1 and 11.

**EXAM 2.**

|          |   |   |   |   |   |   |   |    |    |    |
|----------|---|---|---|---|---|---|---|----|----|----|
| Question | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8  | 9  | 10 |
| Answer   | B | D | A | B | D | 8 | C | 16 | 50 | C  |

**EXAM 3.**

|          |     |      |     |     |    |     |   |     |     |     |
|----------|-----|------|-----|-----|----|-----|---|-----|-----|-----|
| Question | 1   | 2    | 3   | 4   | 5  | 6   | 7 | 8   | 9   | 10  |
| Answer   | 0.9 | 38.5 | 3.9 | 3.5 | 75 | 8.1 | 1 | 0.5 | 2.5 | 125 |



**TEST 2**

**EXAM 1.**

15 and 9 ; 2 and 8 ; 17 and 10 ; 3 and 18 ; 6 and 20 ;  
1 and 7 ; 12 and 13 ; 19 and 5 ; 11 and 4 ; 14 and 16.

**EXAM 2.**

|          |   |   |   |   |    |   |    |   |    |    |
|----------|---|---|---|---|----|---|----|---|----|----|
| Question | 1 | 2 | 3 | 4 | 5  | 6 | 7  | 8 | 9  | 10 |
| Answer   | A | D | A | B | 16 | A | 12 | C | 50 | B  |

**EXAM 3.**

|          |       |     |      |      |    |      |   |       |   |    |
|----------|-------|-----|------|------|----|------|---|-------|---|----|
| Question | 1     | 2   | 3    | 4    | 5  | 6    | 7 | 8     | 9 | 10 |
| Answer   | 0.756 | 150 | 3.75 | 36.5 | 68 | 10.5 | 2 | 0.625 | 8 | 2  |

**ROUND 7**

**TEST 1**

**EXAM 1.**

10 → 15 → 17 → 3 → 6 → 19 → 8 → 9 → 1 → 12  
→ 14 → 7 → 20 → 2 → 16 → 11 → 4 → 18 → 13 → 5.

**EXAM 2.**

|          |   |   |   |   |   |   |   |   |   |    |
|----------|---|---|---|---|---|---|---|---|---|----|
| Question | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Answer   | D | B | C | A | D | B | B | A | B | C  |

**EXAM 3.**

|          |    |    |        |    |     |       |     |   |    |    |
|----------|----|----|--------|----|-----|-------|-----|---|----|----|
| Question | 1  | 2  | 3      | 4  | 5   | 6     | 7   | 8 | 9  | 10 |
| Answer   | 57 | 40 | 0.1375 | 39 | 118 | 7.175 | 0.4 | 8 | 36 | 44 |

**TEST 2**

**EXAM 1.**

18 → 7 → 12 → 15 → 5 → 10 → 20 → 13 → 2 → 4  
→ 9 → 3 → 19 → 11 → 17 → 16 → 8 → 1 → 14 → 6.

**EXAM 2.**

|          |   |   |   |   |   |   |   |   |   |    |
|----------|---|---|---|---|---|---|---|---|---|----|
| Question | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Answer   | C | D | B | D | C | A | B | C | C | B  |

**EXAM 3.**

|          |    |     |       |   |    |   |    |      |   |    |
|----------|----|-----|-------|---|----|---|----|------|---|----|
| Question | 1  | 2   | 3     | 4 | 5  | 6 | 7  | 8    | 9 | 10 |
| Answer   | 72 | 705 | 14.85 | 2 | 11 | 5 | 48 | 1300 | 1 | 13 |

**ROUND 8**

**TEST 1**

**EXAM 1.**

|          |    |     |       |   |    |       |      |     |    |     |
|----------|----|-----|-------|---|----|-------|------|-----|----|-----|
| Question | 1  | 2   | 3     | 4 | 5  | 6     | 7    | 8   | 9  | 10  |
| Answer   | 19 | 300 | 43900 | C | 18 | 0.785 | 21.4 | 6.5 | 24 | 600 |

**EXAM 2.**

7 and 13 ; 18 and 12 ; 15 and 4 ; 5 and 19 ; 2 and 10 ;  
20 and 6 ; 1 and 11 ; 9 and 14 ; 8 and 17 ; 3 and 16.

**EXAM 3.**

|          |    |     |      |                   |   |    |     |       |     |     |
|----------|----|-----|------|-------------------|---|----|-----|-------|-----|-----|
| Question | 1  | 2   | 3    | 4                 | 5 | 6  | 7   | 8     | 9   | 10  |
| Answer   | 91 | 964 | 2.54 | 4 : 6 ;<br>8 : 10 | 5 | 17 | 9.6 | 30335 | 484 | 228 |



**TEST 2**

**EXAM 1.**

|          |        |   |   |   |     |    |       |      |    |    |
|----------|--------|---|---|---|-----|----|-------|------|----|----|
| Question | 1      | 2 | 3 | 4 | 5   | 6  | 7     | 8    | 9  | 10 |
| Answer   | 35.497 | B | D | B | 2.7 | 80 | 21.42 | 1215 | 15 | 62 |

**EXAM 2.**

10 and 16 ; 17 and 4 ; 1 and 7 ; 19 and 8 ; 9 and 20 ;  
5 and 18 ; 11 and 2 ; 3 and 15 ; 6 and 14 ; 13 and 12.

**EXAM 3.**

|          |    |      |      |   |     |       |    |      |     |        |
|----------|----|------|------|---|-----|-------|----|------|-----|--------|
| Question | 1  | 2    | 3    | 4 | 5   | 6     | 7  | 8    | 9   | 10     |
| Answer   | 45 | 1575 | 16.8 | 9 | 198 | 55500 | 27 | 3.29 | 161 | 112.53 |

**ROUND 9**

**EXAM 1.**

|          |     |        |         |     |    |        |      |    |        |    |
|----------|-----|--------|---------|-----|----|--------|------|----|--------|----|
| Question | 1   | 2      | 3       | 4   | 5  | 6      | 7    | 8  | 9      | 10 |
| Answer   | 285 | 3846.5 | 7625000 | 304 | 45 | 315000 | 61.6 | 40 | 375000 | 36 |

**EXAM 2.**

|          |   |   |   |   |   |   |   |   |   |    |
|----------|---|---|---|---|---|---|---|---|---|----|
| Question | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Answer   | C | B | A | D | C | B | A | B | C | D  |

**EXAM 3.**

|          |     |      |   |      |    |   |    |        |    |       |
|----------|-----|------|---|------|----|---|----|--------|----|-------|
| Question | 1   | 2    | 3 | 4    | 5  | 6 | 7  | 8      | 9  | 10    |
| Answer   | 4.3 | 12.5 | 5 | 67.5 | 64 | 4 | 20 | 100234 | 80 | 7 : 2 |

**ROUND 10**

**EXAM 1.**

|          |   |   |   |   |   |   |   |   |   |    |
|----------|---|---|---|---|---|---|---|---|---|----|
| Question | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Answer   | C | A | B | C | D | A | A | D | C | D  |

**EXAM 2.**

|          |    |       |   |         |    |   |     |        |     |      |
|----------|----|-------|---|---------|----|---|-----|--------|-----|------|
| Question | 1  | 2     | 3 | 4       | 5  | 6 | 7   | 8      | 9   | 10   |
| Answer   | 25 | 0.008 | 5 | 6120.27 | 50 | 7 | 240 | 103683 | 180 | 2017 |

**EXAM 3.**

|          |   |    |      |     |     |       |      |    |                  |     |
|----------|---|----|------|-----|-----|-------|------|----|------------------|-----|
| Question | 1 | 2  | 3    | 4   | 5   | 6     | 7    | 8  | 9                | 10  |
| Answer   | 2 | 48 | 2054 | 120 | 300 | 112.5 | 1035 | 18 | $\frac{99}{101}$ | 568 |



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