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APTITUDE

# Surprise test 1

YANA SRIVASTAVA

**Final Grade**  
Submitted 9/20/21, 8:22 PM (UTC+5:30) 12 / 12

Question scores appear after all grades are posted

Assignment Content

### Question 1

Find the compound interest on Rs. 20,000 in 1 year at 8% per annum, the interest being compounded half-yearly.

- A) 7242
- B) 6232
- C) 1632
- D) 5232

Feedback

#### Feedback for student

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48% 28°C 8:41 PM 9/20/2021

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### Question 2

The sum of all two digits numbers divisible by 11 is

- A) 568
- B) 678
- C) 945
- D) 495

### Question 3

The difference between the squares of two consecutive odd integers is always divisible by?

- A) 8
- B) 3
- C) 9
- D) 7

### Question 4

Feedback

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### Question 4

Evaluate the smallest number by which 3125 must be divided in order to make it into a perfect square?

A 2

B 3

C 5

D 4

### Question 5

If 80% of  $\frac{7}{5}$  of a number is 56, then the number is

A 115

B 94

C 50

D 86

### Feedback

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### Question 6

If 40% of  $a = b$ , then  $b$  of 40 is the same as

A 10% of  $a$

B 8% of  $a$

C 4% of  $a$

D 16% of  $a$

### Question 7

$982 + 9999$

A 9098011

B 9819018

C 9808898

D 7998012

### Feedback

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**Question 8**

If the cost price of 18 pens is equal to the selling price of 9 pens, the gain percent is?

(A) 12 %  
(B) 60 %  
(C) 100 %  
(D) 30 %

**Question 9**

How much time will take for an amount of Rs. 900 to yield Rs.162 as interest at 9% per annum of simple interest?

(A) 3 years  
(B) 2 years  
(C) 2.5 years  
(D) 4 years

**Question 10**

**Feedback**

**Feedback for student**

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**Question 10**

Evaluate compound interest on Rs. 9000 at 15% per annum for 2 years 4 months, compounded annually

(A) 2109  
(B) 6109  
(C) 3109  
(D) 3497.625

**Question 11**

$77 * 122$

(A) 9404  
(B) 9704  
(C) 9081  
(D) 9394

**Question 12**

**Feedback**

**Feedback for student**

Your instructor hasn't added feedback

Type here to search | 47% | 28°C | 8:44 PM 9/20/2021

The screenshot shows a web browser window with a Blackboard assessment page. The browser's address bar shows the URL: [cuchd.blackboard.com/ultra/calendar/assessment/\\_9191884\\_1/overview/attempt/\\_11744963\\_1/review/inline-feedback?attemptId=\\_11744963\\_1&mode=inline&columnId=\\_1981903\\_1&contentId=\\_9191884\\_1](https://cuchd.blackboard.com/ultra/calendar/assessment/_9191884_1/overview/attempt/_11744963_1/review/inline-feedback?attemptId=_11744963_1&mode=inline&columnId=_1981903_1&contentId=_9191884_1). The page displays two questions:

**Question 11**  
77 \* 122  
A 9404  
B 9704  
C 9081  
D 9394

**Question 12**  
The compound interest on rs.30000 at 7% per annum is Rs.4347. The period is  
A 2 years  
B 2.5 years  
C 4 years  
D 3 years

On the right side, there is a "Feedback" panel titled "Feedback for student" with the message: "Your instructor hasn't added feedback".

### Question 11

A woman spends 45% of his income on food, 15% on children's education and 70% of the remaining on house rent. What percent of her income she is left with?

- A 8 %
- B 12 %
- C 13 %
- D 10 %

### Question 12

Evaluate the rate percent per annum at which a sum of money double in 10 years.

- A 11.5 %
- B 10 %
- C 13.5 %
- D 14.5 %

### Question 5

A person incurs a loss of 10% by selling a watch for Rs. 2250. At what price should the watch be sold to earn 10% profit?

- (A) Rs 1290
  - (B) Rs 1230
  - (C) Rs 2750
  - (D) Rs 1260
- 

### Question 6

Evaluate the square of 107?

- (A) 12549
- (B) 11449
- (C) 13549
- (D) 11244

### Question 5

If the price of a book is first decreased by 35% and then increased by 20%, then the net change in the price will be:

- A 22 % decrease
  - B 40 % increase
  - C 30 % increase
  - D 10 % decrease
- 

### Question 6

If the cost price of 18 pens is equal to the selling price of 9 pens, the gain percent is?

- A 30 %
  - B 12 %
  - C 100 %
  - D 60 %
-

### Question 7

4765\*0 is divisible by 11. The non-zero digit in the ten's place is

- (A) 6
  - (B) 2
  - (C) 9
  - (D) 8
- 

### Question 8

Fresh fruit contains 68% water and dry fruit contains 20% water. How much dry fruit can be obtained from 200 kg of fresh fruits?

- (A) 40
- (B) 30
- (C) 20
- (D) 80

### Question 7

Evaluate the rate percent per annum at which a sum of money double in 10 years.

- A 10 %
  - B 14.5 %
  - C 11.5 %
  - D 13.5 %
- 

### Question 8

A man took loan from a bank at the rate of 15% p.a. simple interest. After 3 years he had to pay Rs. 6400 interest only for the period. The principal amount borrowed by him was:

- A RS 20000
- B Rs 15000
- C Rs 14222.22
- D Rs 2000



### Question 11

The difference between the place value and the face value of 4 in the numeral 967452 is

- (A) 699
  - (B) 583
  - (C) 639
  - (D) 396
- 

### Question 12

Evaluate compound interest on Rs. 9000 at 15% per annum for 2 years 4 months, compounded annually

- (A) 3109
- (B) 6109
- (C) 3497.625
- (D) 2109

### Question 3

$4.2\% \text{ of } 800 \times 2.4\% \text{ of?} = 288$

(A) 600.14

(B) 357.14

(C) 700.12

(D) 650.13

---

### Question 4

$982 * 9999$

(A) 9808898

(B) 9098011

(C) 9819018

(D) 7998012



## Question 7

The largest 4 digit number exactly divisible by 85 is?

A 9945

B 9993

C 9833

D 9990

---

## Question 8

Find the square of 105

A 25255

B 56258

C 11025

D 31258

### Question 7

On a sum of money, the simple interest for 2 years is Rs. 1320, while the compound interest is Rs.1386, the rate of interest being the same in both the cases. Evaluate rate of interest?

- (A) 11%
  - (B) 10%
  - (C) 13%
  - (D) 12%
- 

### Question 8

A sum of money becomes  $\frac{5}{4}$  of itself in 3 years at a certain rate of simple interest. The rate per annum is?

- (A)  $\frac{25}{3}$  %
- (B)  $\frac{47}{9}$  %
- (C)  $\frac{51}{7}$  %
- (D)  $\frac{50}{9}$  %

## Question 1

60% of 85 + 80% of 25 = M% of 350 Find the value of M?

(A) 35.45

(B) 30.43

(C) 20.32

(D) 20.28

---

## Question 2

$57 * 137$

(A) 9701

(B) 9081

(C) 7809

(D) 9409

---

### Question 1

Rs.3000 is divided into two parts such that if one part is invested at 6% and the other at 5% the whole annual interest from both the sum is Rs.170. How much was lent at 5%?

- (A) Rs 500
- (B) Rs 1000
- (C) Rs 1250
- (D) Rs 635

---

### Question 2

At 10% simple interest per annum a sum of money becomes Rs. 300.3 in 3 years. Evaluate the sum invested?

- (A) Rs. 231
- (B) Rs. 275
- (C) Rs. 250
- (D) Rs. 240

### Question 1

If the cost price of 18 pens is equal to the selling price of 9 pens, the gain percent is?

- (A) 60 %
  - (B) 30 %
  - (C) 100 %
  - (D) 12 %
- 

### Question 2

How much time will take for an amount of Rs. 900 to yield Rs.162 as interest at 9% per annum of simple interest?

- (A) 2 years
- (B) 3 years
- (C) 2.5 years
- (D) 4 years

### Question 9

A man took loan from a bank at the rate of 15% p.a. simple interest. After 3 years he had to pay Rs. 6400 interest only for the period. The principal amount borrowed by him was:

- (A) Rs 15000
  - (B) Rs 14222.22
  - (C) Rs 2000
  - (D) RS 20000
- 

### Question 10

$926 \times 452$

- (A) 418552
- (B) 637328
- (C) 983452
- (D) 876458



### Question 9

Every year before the festive season, a shopkeeper increases the price of the product by 60% and then introduces two successive discounts of 20% and 10% respectively. Evaluate percentage loss and percentage gain?

- (A) 4.15 % gain
  - (B) 3.27 % gain
  - (C) 15.2 % gain
  - (D) 3.27 % loss
- 

### Question 10

A woman spends 45% of his income on food, 15% on children's education and 70% of the remaining on house rent. What percent of her income she is left with?

- (A) 8 %
- (B) 12 %
- (C) 13 %
- (D) 10 %

### Question 3

Find the square of 79

- A 6241
  - B 7921
  - C 8121
  - D 7821
- 

### Question 4

A's salary is 30% of B's salary which is 25% of C's salary. Evaluate percentage of A's salary w.r.t C's salary?

- A 7.5
  - B 40
  - C 10
  - D 8.5
-

### Question 1

Fresh fruit contains 68% water and dry fruit contains 20% water. How much dry fruit can be obtained from 200 kg of fresh fruits?

A 40

B 30

C 80

D 20

---

### Question 2

The difference between the squares of two consecutive odd integers is always divisible by?

A 8

B 9

C 7

D 3

### Question 11

Evaluate the square root of 9604?

- (A) 112
  - (B) 98
  - (C) 135
  - (D) 12
- 

### Question 12

A seller uses 800 gm in place of 1 kg to sell his goods. Find his actual profit/loss % when he sells his article on 5% loss on cost price?

- (A) 24.18% loss
- (B) 14.28 % loss
- (C) 18.75% profit
- (D) 24.18 % profit

### Question 9

The simple interest on Rs. 45 for 4 months at the rate of 3 paisa per rupee per month is:

(A) Rs. 2.40

(B) Rs. 5.40

(C) Rs. 3

(D) Rs. 1.40

---

### Question 10

Find the next number in the series 135, 80, 270, 40.....?

(A) 500

(B) 544

(C) 540

(D) 150

### Question 3

The sum of the digits in a two-digit number is 6. If 36 is subtracted from the number, the result is the number with the digits reversed. Evaluate number?

- (A) 24
  - (B) 51
  - (C) 42
  - (D) 14
- 

### Question 4

When a woman sells 40 articles for Rs. 200, there is 40% loss. How many articles should she sell for Rs. 240 in order to earn 20% profit?

- (A) 17
- (B) 14
- (C) 16
- (D) 24

### Question 11

The current birth rate per thousand is 42, whereas corresponding death rate is 32 per thousand. The net growth rate in terms of population increase in percent is given by:

- (A) 1.2 %
  - (B) 2.1 %
  - (C) 1.3 %
  - (D) 1.0%
- 

### Question 12

Simplify  $[82 - 12 + 3 * 2] + (18 - 6) \div 4$ .

- (A) 58
- (B) 77
- (C) 63
- (D) 39

### Question 5

A shopkeeper fixes the marked price of an item 45% above its cost price. The percentage of discount allowed to gain 12% is

- A 22.75 %
  - B 18 %
  - C 20 %
  - D 21 %
- 

### Question 6

The current birth rate per thousand is 42, whereas corresponding death rate is 32 per thousand. The net growth rate in terms of population increase in percent is given by:

- A 1.3 %
- B 2.1 %
- C 1.2 %
- D 1.0%

### Question 9

ITC sells one product at a profit of 30% another at a loss of 30% at the same selling price. Evaluate the loss incurred by ITC?

- (A) 0%
  - (B) 2%
  - (C) 1%
  - (D) 9%
- 

### Question 10

Two numbers are 30% and 40% less than the third number. How much percent is the second number less than first number?

- (A) 16.70
- (B) 11.60
- (C) 14.28
- (D) 13.50



### Question 3

One-fifth of a number is equal to  $\frac{5}{8}$ th of another number. If 45 is added to the first number, it becomes five times the second number. Evaluate second number.

- (A) 12
- (B) 24
- (C) 17
- (D) 13

### Question 4

Rs.3000 is divided into two parts such that if one part is invested at 6% and the other at 5% the whole annual interest from both the sum is Rs.170. How much was lent at 5%?

- (A) Rs 1000
- (B) Rs 500
- (C) Rs 635
- (D) RS 1250

The screenshot shows a Blackboard assessment interface for a student named YANA SRIVASTAVA. The page displays the following information:

- Final Grade:** 6/6, Submitted 9/20/21, 8:31 PM (UTC+5:30)
- Question scores appear after all grades are posted**
- Assignment Content:**
  - Question 1:** 97 \* 999. Options: (A) 96903, (B) 98083, (C) 79983, (D) 90983.
  - Question 2:** If the numerator of a fraction is increased by 300% and the denominator of the fraction is increased by 250%, the resultant fraction is  $\frac{5}{7}$ . Evaluate the original fraction?
- Feedback:** Feedback for student. Your instructor hasn't added feedback.

Feedback

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### Question 2

If the numerator of a fraction is increased by 300% and the denominator of the fraction is increased by 250%, the resultant fraction is  $\frac{5}{7}$ . Evaluate the original fraction?

- (A)  $\frac{3}{10}$
- (B)  $\frac{1}{8}$
- (C)  $\frac{3}{7}$
- (D)  $\frac{5}{8}$

---

### Question 3

A number, when divided by 899, gives a remainder 63. If the same number is divided by 27, the remainder will be:

- (A) 5
- (B) 4
- (C) can't be determined
- (D) 7

Feedback

#### Feedback for student

Your instructor hasn't added feedback

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### Question 4

The price of sugar is increased by 25%. As a result, a family has decreased its consumption by 20%. The expenditure of the family on sugar is decreased by:

- (A) 0
- (B) 16%
- (C) 2.5%
- (D) 5%

---

### Question 5

Evaluate the square of 75?

- (A) 5625
- (B) 4825
- (C) 3125
- (D) 2525

Feedback

#### Feedback for student

Your instructor hasn't added feedback

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### Question 5

Evaluate the square of 75?

- A 5625
- B 4825
- C 3125
- D 2525

---

### Question 6

How many natural numbers divisible by 9 are there between 3 and 200?

- A 29
- B 36
- C 22
- D 27

**Feedback**

**Feedback for student**

*Your instructor hasn't added feedback*

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### Assignment Content

#### Question 1

P sells a bicycle to Q at a profit of 20% and Q sells it to R at a profit of 25%. If R pays Rs. 3000, what did P pay for it?

- A 1125
- B 2000
- C 8250
- D 1100

---

#### Question 2

What sum of money(approx) at compound interest will amount to Rs.750 at the end of the first year and Rs.776 at the end of the second year?

- A Rs 600.25
- B Rs 600
- C Rs 625.25
- D Rs 725

**Feedback**

**Feedback for student**

*Your instructor hasn't added feedback*

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### Question 3

A real estate agent sells two sites for Rs. 28000 each. On one he gains 35% and on the other he loses 35%. Evaluate his loss or gain percent?

- (A) 4% loss
- (B) 12.25 % loss
- (C) No profit No loss
- (D) 6.25% gain

### Question 4

A sum of money becomes 27 times of itself in 3 years at compound interest. Evaluate the rate of interest per annum ?

- (A) 100 %
- (B) 20 %
- (C) 10 %
- (D) 200 %

### Question 5

What will be the ratio of simple interest earned by certain amount at the same rate of interest for 12 years and that for 15 years?

- (A) 1:4
- (B) 1:3
- (C) 4:5
- (D) data inadequate

### Question 6

A tradesman marks his goods 40% above the cost price and allows his customers 15 % reduction on their bills. What percent profit does he make?

- (A) 19 %
- (B) 12.5%
- (C) 10 %
- (D) 14 %

### Feedback

#### Feedback for student

Your instructor hasn't added feedback

39% | 28°C | 9:02 PM 9/20/2021

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### Question 5

What will be the ratio of simple interest earned by certain amount at the same rate of interest for 12 years and that for 15 years?

- (A) 1:4
- (B) 1:3
- (C) 4:5
- (D) data inadequate

### Question 6

A tradesman marks his goods 40% above the cost price and allows his customers 15 % reduction on their bills. What percent profit does he make?

- (A) 19 %
- (B) 12.5%
- (C) 10 %
- (D) 14 %

### Feedback

#### Feedback for student

Your instructor hasn't added feedback

38% | 28°C | 9:02 PM 9/20/2021

### Question 11

Evaluate the square root of 9604?

- (A) 112
  - (B) 98
  - (C) 135
  - (D) 12
- 

### Question 12

A seller uses 800 gm in place of 1 kg to sell his goods. Find his actual profit/loss % when he sells his article on 5% loss on cost price?

- (A) 24.18% loss
- (B) 14.28 % loss
- (C) 18.75% profit
- (D) 24.18 % profit

### Question 9

The simple interest on Rs. 45 for 4 months at the rate of 3 paisa per rupee per month is:

(A) Rs. 2.40

(B) Rs. 5.40

(C) Rs. 3

(D) Rs. 1.40

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### Question 10

Find the next number in the series 135, 80, 270, 40.....?

(A) 500

(B) 544

(C) 540

(D) 150

### Question 3

The sum of the digits in a two-digit number is 6. If 36 is subtracted from the number, the result is the number with the digits reversed. Evaluate number?

- (A) 24
  - (B) 51
  - (C) 42
  - (D) 14
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### Question 4

When a woman sells 40 articles for Rs. 200, there is 40% loss. How many articles should she sell for Rs. 240 in order to earn 20% profit?

- (A) 17
- (B) 14
- (C) 16
- (D) 24

### Question 11

The current birth rate per thousand is 42, whereas corresponding death rate is 32 per thousand. The net growth rate in terms of population increase in percent is given by:

- (A) 1.2 %
  - (B) 2.1 %
  - (C) 1.3 %
  - (D) 1.0%
- 

### Question 12

Simplify  $[82 - 12 + 3 * 2] + (18 - 6) \div 4$ .

- (A) 58
- (B) 77
- (C) 63
- (D) 39