

Talent Transformation (2019)

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Started on Friday, 17 August 2018, 10:00 AM

State Finished

Completed on Friday, 17 August 2018, 10:37 AM

Time taken 37 mins

Marks 12.00/20.00

Grade 6.00 out of 10.00 (60%)

Question 1

Correct

Mark 1.00 out of

1.00

Flag question

If f(x) = 2x+2 what is f(f(3))?

Select one:

- a. 64
- b. 16
- c. 18
- od. 8

The correct answer is: 18

Question 2

Correct

Mark 1.00 out of

1.00

Flag question

If f(x) = 7 x +12, what is f-1(x) (the inverse function)?

Select one:

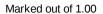
- a. No inverse exists
- b. 7x+12
- c. (x-12)/7 ✓
- d. 1/(7x+12)

The correct answer is: (x-12)/7

Ouestion 3

Not answered

A permutation is often represented by the cycles it has. For example, if we permute the numbers in the natural order to 2 3 1 5 4, this is represented as (1 3 2) (54). In





Flag question

this the (132) says that the first number has gone to the position 3, the third number has gone to the position 2, and the second number has gone to position 1, and (5 4) means that the fifth number has gone to position 4 and the fourth number has gone to position 5. The numbers with brackets are to be read cyclically. If a number has not changed position, it is kept as a single cycle. Thus 5 2 1 3 4 is represented as (1345)(2). We may apply permutations on itself If we apply the permutation (132)(54) once, we get 2 3 1 5 4. If we apply it again, we get 3 1 2 4 5, or (1 2 3)(4) (5) If we consider the permutation of 7 numbers (1457)(263), what is its order (how many times must it be applied before the numbers appear in their original order)?

Select one:

- a. 14
- b. 7
- c. 7! (factorial of 7)
- od. 12

The correct answer is: 7! (factorial of 7)

Question 4

Correct

Mark 1.00 out of 1.00



Flag question

What is the maximum value of x3y3 + 3 x*y when x+y = 8?

Select one:

- a. 102
- b. 256
- c. 4144
- d. 8192

The correct answer is: 4144

Ouestion 5

Correct

Mark 1.00 out of 1.00



Flag question

Two circles of radii 5 cm and 3 cm touch each other at A and also touch a line at B and C. The distance BC in cms is?

Select one:

- a. root 68
- b. root 62
- c. root 60
- d. root 64

The correct answer is: root 60

Question 6

Correct

Mark 1.00 out of 1.00



Flag question

In Goa beach, there are three small picnic tables. Tables 1 and 2 each seat three people. Table 3 seats only one person, since two of its seats are broken. Akash, Babu, Chitra, David, Eesha, Faroog, and Govind all sit at seats at these picnic tables. Who sits with whom and at which table are determined by the following constraints: a. Chitra does not sit at the same table as Govind. b. Eesha does not sit at the same table as David. c. Farooq does not sit at the same table as Chitra. d. Akash does not sit at the same table as Babu. e. Govind does not sit at the same table as Farooq. Which of the following is a list of people who could sit together at table 2?

Select one:

- a. Farooq, David, Eesha.
- b. Chitra, Govind, David.
- c. Govind, Eesha, Akash
- d. Babu, Farooq, Chitra

The correct answer is: Govind, Eesha, Akash

Question 7

Incorrect

Mark -0.33 out of 1.00



Flag question

There are a number of chocolates in a bag. If they were to be equally divided among 14 children, there are 10 chocolates left. If they were to be equally divided among 15 children, there are 8 chocolates left. Obviously, this can be satisfied if any multiple of 210 chocolates are added to the bag. What is the remainder when the minimum feasible number of chocolates in the bag is divided by 9?

Select one:

- a. 4
- b. 2
- c. 5 X
- d. 6

The correct answer is: 2

Question 8

Correct

Mark 1.00 out of 1.00

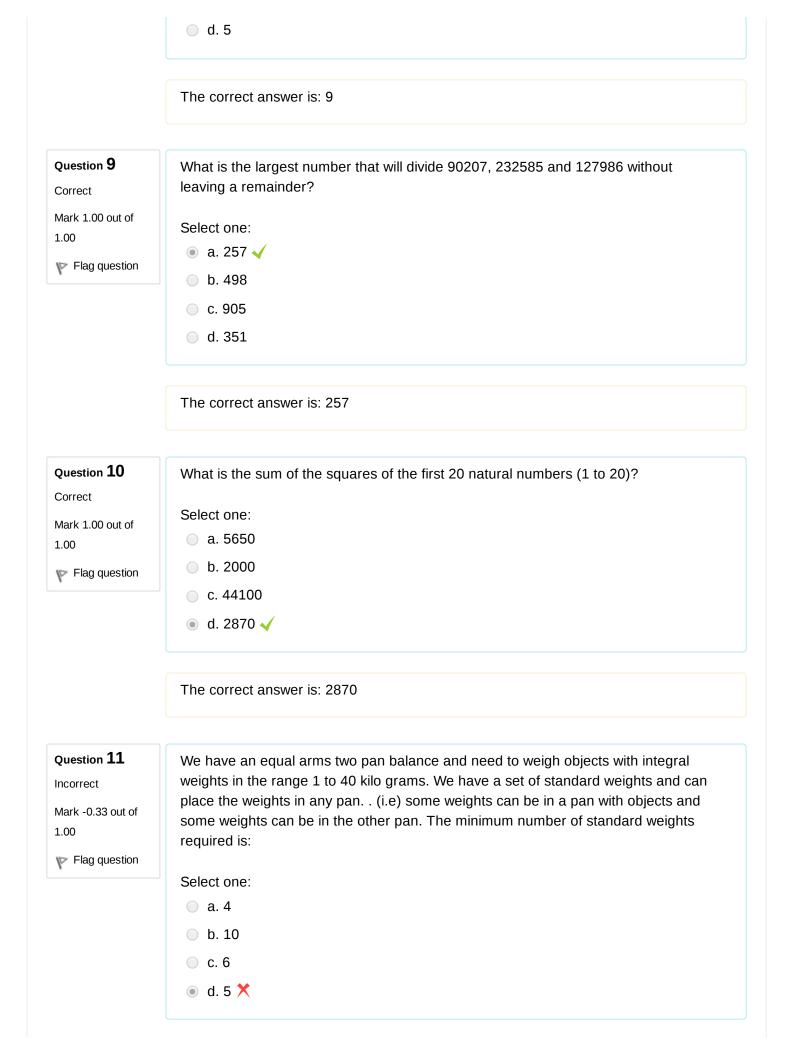


Flag question

Let f(m,n) = 45*m + 36*n, where m and n are integers (positive or negative) What is the minimum positive value for f(m,n) for all values of m,n (this may be achieved for various values of m and n)?

Select one:

- a. 6
- b. 18
- ⊙ c. 9 √



The correct answer is: 4 A white cube(with six faces) is painted red on two different faces. How many different ways can this be done (two paintings are considered same if on a suitable rotation of the cube one painting can be carried to the other)? Select one: Flag question a. 30 b. 2 c. 15 od. 4 The correct answer is: 2 How many divisors (including 1, but excluding 1000) are there for the number 1000? Select one: a. 15 Flag question b. 10 c. 16

Correct Mark 1.00 out of

d. 31

The correct answer is: 15

Question 14

Question 12

Mark 1.00 out of

Question 13

1.00

Correct

1.00

Not answered

Marked out of 1.00



Flag question

In the polynomial $f(x) = 2*x^4 - 49*x^2 + 54$, what is the product of the roots, and what is the sum of the roots (Note that xⁿ denotes the x raised to the power n, or x multiplied by itself n times)?

Select one:

- a. 54,2
- b. 49/2,54
- c. 49,27
- d. 27,0

The correct answer is: 27,0

Question 15 In the polynomial $f(x) = x^5 + a^2x^3 + b^2x^4 + c^2x + d$, all coefficients a, b, c, d are integers. If 3 + sqrt(7) is a root, which of the following must be also a root?(Note Not answered that x^n denotes the x raised to the power n, or x multiplied by itself n times. Also Marked out of 1.00 sqrt(u) denotes the square root of u, or the number which when multiplied by itself, Flag question gives the number u)? Select one: a. 3+sqrt(21) b. 5 c. sqrt(7) + sqrt(3) d. 3-sqrt(7)

The correct answer is: 3-sqrt(7)

Question 16

Correct

Mark 1.00 out of 1.00

Flag question

28a + 30 b +31c =365 find a+b+c if a.b.c are natural numbers

Select one:

- a. 14
- b. 12
- c. 13
- od. 15

The correct answer is: 12

Question 17

Correct

Mark 1.00 out of 1.00



Flag question

P is 30% of Q Q is 20% of M M is 50% of N what is P/N equal to.

Select one:

- a. 2.1
- b. 0.3
- o. 0.003
- d. 0.03 ✓

The correct answer is: 0.03

Question 18

Correct

Mother +daughter+infant age is 74. Mother age is 46 more then daughter and infant. And infant age is 0.4 of daughter. Find daughters age.

Mark 1.00 out of	Select one:
1.00	a. 11
Flag question	○ b. 9
	● c. 10 ✓
	O d. 15
	The correct answer is: 10
Question 19 Not answered	A finishes a work in 8 hrs B finishes a work in 10 hrs C finishes a work in 12 hrs A,B,C work together but A leaves after 2 hrs find the time t taken by B & C.
Marked out of 1.00	
Flag question	Select one:
V 199 400000	\circ a. $3\frac{1}{22}$
	$igcup b. 2 rac{1}{11}$
	\circ c. $11\frac{1}{22}$
	\circ d. $7\frac{5}{66}$
	001
	The correct answer is: $2\frac{1}{11}$
Question 20	There are exactly 4 Thursdays and 4 Sundays in a month of 31. Find the first day.
Incorrect	Solost one:
Mark -0.33 out of	Select one: a. WEDNESDAY
1.00	b. SUNDAY
Flag question	c. MONDAY
	d. FRIDAY
	u. FRIDAY
	The correct answer is: MONDAY
Finish review	
LIHI2H IGNIGM	



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