

Knowledge Gate

learn.knowledgegate.ai/learn/mock-test/326799?id=326799&mode=0&qid=10558400&resultType=2&lessonId=1862822

Test 2: Numerical Ability (TCS NQT 2025)

NUMERICAL ABILITY (APTITUDE)

00:39:45

questionNumberPrefix 1 of 26 marks : 1.0, -0.0

a, b, c are chosen randomly and with replacement from the set { 1,2,3,4,5} . Find the probability that $a * b + c$ is even .

[Asked in TCS NQT 2019]

[This test belongs to Paid Members of KNOWLEDGE GATE]

#PYQ #PLACEMENTS #APTITUDE #PROBABILITY #TCS #2019

(A) 59/125

(B) 47/125

(C) 51/125

(D) 67/125

☆ MARKFORREVIEW CLEAR 1 OF 26 NEXT

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Test 2: Numerical Ability (TCS NQT 2025)

NUMERICAL ABILITY (APTITUDE)

00:36:47

questionNumberPrefix 2 of 26 marks : 1.0, -0.0

If four dice are thrown and the values are noted. What is the probability of the sum being 20 ?

[Asked in TCS NQT 2018]

[This test belongs to Paid Members of KNOWLEDGE GATE]

#PYQ #PLACEMENTS #APTITUDE #PROBABILITY #TCS #2018

(A) 17/648

(B) 35/1296

(C) 11/432

D 1/54

☆ MARKFORREVIEW CLEAR 2 OF 26 NEXT

Knowledge Gate

learn.knowledgegate.ai/learn/mock-test/326799?mode=0&qid=10558402&resultType=2&lessonId=1862822

Test 2: Numerical Ability (TCS NQT 2025)

NUMERICAL ABILITY (APTITUDE)

00:36:45

questionNumberPrefix 3 of 26 marks : 1.0, -0.0

Using Fermat Rule

What will be the remainder when $(222)^6$ is divided by 7?

[Asked in TCS NQT 2020]

[This test belongs to Paid Members of KNOWLEDGE GATE]

#PYQ #PLACEMENTS #APTITUDE #NUMBERSYSTEM #DIVISIBILITYRULES #TCS #2020

(A) 6

(B) 0

☒ (C) 1

(D) 5

MARKFORREVIEW CLEAR

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NEXT

Handwritten notes:

$\frac{N^{p-1}}{p} = 1$ (remainder) 7 is Prime ✓

222, 7 HCF is 1 ✓

so,

$\frac{(222^6)^6}{7} = 1$

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learn.knowledgegate.ai/learn/mock-test/326799?mode=0&qid=10558404&resultType=2&lessonId=1862822

Test 2: Numerical Ability (TCS NQT 2025)

NUMERICAL ABILITY (APTITUDE)

00:34:45

questionNumberPrefix 4 of 26 marks : 1.0, -0.0

15 litres of a mixture contains 20% alcohol and rest water. If 3 litres of water is added in it, per cent of alcohol in the new mixture will be?

[Asked in TCS NQT 2020]

[This test belongs to Paid Members of KNOWLEDGE GATE]

#PYQ #PLACEMENTS #APTITUDE #MIXTURES&ALLIGATIONS #TCS #2020

(A) 16.34

☒ (B) 16.67

(C) 20

(D) 33.34

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Test 2: Numerical Ability (TCS NQT 2025)

NUMERICAL ABILITY (APTITUDE)

questionNumberPrefix 5 of 26 marks : 1.0, -0.0

What is the remainder when 6^{50} is divided by 215 ?

[Asked in TCS NQT 2020]

[This test belongs to Paid Members of KNOWLEDGE GATE]

#PYQ #PLACEMENTS #APTITUDE #NUMBERSYSTEM #TCS #2020

(A) 1

(B) 6

(C) 35

(D) 36

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Test 2: Numerical Ability (TCS NQT 2025)

NUMERICAL ABILITY (APTITUDE)

questionNumberPrefix 6 of 26 marks : 1.0, -0.0

The ratio of incomes of C and D is 3:4, the ratio of their expenditures is 4:5. Find the ratio of their savings if the savings of C is one fourth of his income ? [Asked in TCS NQT 2021]

[This test belongs to Paid Members of KNOWLEDGE GATE]

#PYQ #PLACEMENTS #APTITUDE #RATIO&PROPORTION #TCS #2021

(A) 7/19

(B) 11/19

(C) 12/19

(D) 19/12

Handwritten solution:

$$s_c = 3x - 4y$$

$$s_d = 4x - 5y$$

$$\frac{3x - 4y}{4x - 5y}$$

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Knowledge Gate

learn.knowledgegate.ai/learn/mock-test/326799?mode=0&qid=10558406&resultType=2&lessonId=1862822

Test 2: Numerical Ability (TCS NQT 2025)

NUMERICAL ABILITY (APTITUDE)

00:31:45

questionNumberPrefix 6 of 26 marks : 1.0, -0.0

The ratio of incomes of C and D is 3:4, the ratio of their expenditures is 4:5. Find the ratio of their savings if the savings of C is one fourth of his income ? [Asked in TCS NQT 2021]

[This test belongs to Paid Members of KNOWLEDGE GATE]

#PYQ #PLACEMENTS #APTITUDE #RATIO&PROPORTION #TCS #2021

(A) 7/19

(B) 11/19

(C) 12/19

(D) 19/12

☆ MARKFORREVIEW CLEAR

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Knowledge Gate

learn.knowledgegate.ai/learn/mock-test/326799?mode=0&qid=10558407&resultType=2&lessonId=1862822

Test 2: Numerical Ability (TCS NQT 2025)

NUMERICAL ABILITY (APTITUDE)

00:31:39

questionNumberPrefix 7 of 26 marks : 1.0, -0.0

What is the remainder when 123412341234.....400 digits is divided by 909 ?

[Asked in TCS NQT 2021]

[This test belongs to Paid Members of KNOWLEDGE GATE]

#PYQ #PLACEMENTS #APTITUDE #NUMBERSYSTEM #TCS #2021

(A) 0

(B) 1

(C) 675

(D) 685

☆ MARKFORREVIEW CLEAR

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Knowledge Gate

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Test 2: Numerical Ability (TCS NQT 2025)

NUMERICAL ABILITY (APTITUDE)

00:29:45

questionNumberPrefix 9 of 26 marks : 1.0, -0.0

What is the remainder when 12121212..... (upto 300 digits) is divided by 99 ?

[Asked in TCS NQT 2021]

[This test belongs to Paid Members of KNOWLEDGE GATE]

#PYQ #PLACEMENTS #APTITUDE #NUMBERSYSTEM #TCS #2021

(A) 36

(B) 24

(C) 18

(D) 12

☆ MARKFORREVIEW CLEAR 9 OF 26 NEXT

Knowledge Gate

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Test 2: Numerical Ability (TCS NQT 2025)

NUMERICAL ABILITY (APTITUDE)

00:28:58

questionNumberPrefix 10 of 26 marks : 1.0, -0.0

Total number of 4 digit number do not having the digit 3 or 6.

[Asked in TCS NQT 2019]

[This test belongs to Paid Members of KNOWLEDGE GATE]

#PYQ #PLACEMENTS #APTITUDE #NUMBERSYSTEM #TCS #2019

(A) 2700

(B) 3700

(C) 5584

(D) 3784

$$7 \times 8 \times 8 \times 8 = 3584$$

☆ MARKFORREVIEW CLEAR 10 OF 26 NEXT

Knowledge Gate

learn.knowledgegate.ai/learn/mock-test/326799&mode=0&qid=10558411&resultType=2&lessonId=1862822

Test 2: Numerical Ability (TCS NQT 2025)

NUMERICAL ABILITY (APTITUDE)

00:28:57

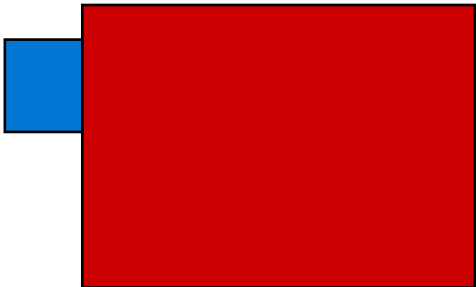
questionNumberPrefix 11 of 26 marks : 1.0, -0.0

Find the radius of the circle inscribed in the triangle ABC, having sides 10 cm, 10cm and 16 cm .

[Asked in TCS NQT 2018]

[This test belongs to Paid Members of KNOWLEDGE GATE]

#PYQ #PLACEMENTS #APTITUDE #MENSURATION&GEOMETRY #TCS #2018



(A) 2 cm

(B) 2.56 cm

(C) 2.66 cm

(D) 3 cm

☆ MARKFORREVIEW CLEAR 11 OF 26 NEXT

Knowledge Gate

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Test 2: Numerical Ability (TCS NQT 2025)

NUMERICAL ABILITY (APTITUDE)

00:28:52

questionNumberPrefix 12 of 26 marks : 1.0, -0.0

What will be the 55th word in the arrangement of the letters of the word PERFECT

[Asked in TCS NQT 2019]

[This test belongs to Paid Members of KNOWLEDGE GATE]

#PYQ #PLACEMENTS #APTITUDE #P&C #TCS #2019

(A) CEPEFRT

(B) CEPFERT

(C) CEEFPRT

(D) CEFEPRT

☆ MARKFORREVIEW CLEAR 12 OF 26 NEXT

Knowledge Gate

learn.knowledgegate.ai/learn/mock-test/326799&mode=0&qid=10558413&resultType=2&lessonId=1862822

Test 2: Numerical Ability (TCS NQT 2025)

NUMERICAL ABILITY (APTITUDE)

00:28:50

questionNumberPrefix 13 of 26 marks: 1.0, -0.0

$N = 82^3 - 62^3 - 20^3$ is divisible by

[Asked in TCS NQT 2021]

[This test belongs to Paid Members of KNOWLEDGE GATE]

#PYQ #PLACEMENTS #APTITUDE #NUMBERSYSTEM #DIVISIBILITYRULES #TCS #2021

if $a + b + c = 0$
then $a^3 + b^3 + c^3 = 3abc$

..

☒ (A) 41 and 41
☐ (B) 13 and 67
☐ (C) 17 and 7
☐ (D) none

$82^3 - 62^3 - 20^3 = 3 * 82 * (-62) * (-20)$
 $3 * 82 * (-62) * (-20) = 305040 \rightarrow 31 \& 41$

☆ MARKFORREVIEW CLEAR 13 OF 26 NEXT

Knowledge Gate

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Test 2: Numerical Ability (TCS NQT 2025)

NUMERICAL ABILITY (APTITUDE)

00:28:48

questionNumberPrefix 14 of 26 marks: 1.0, -0.0

For which of the following "n" is the number $2^74 + 2^42058 + 2^42n$ a perfect square ?

[Asked in TCS NQT 2020]

[This test belongs to Paid Members of KNOWLEDGE GATE]

#PYQ #PLACEMENTS #APTITUDE #NUMBERSYSTEM #TCS #2020

☐ (A) 2012
☐ (B) 2100
☐ (C) 2011
☒ (D) 2020

☆ MARKFORREVIEW CLEAR 14 OF 26 NEXT

Knowledge Gate

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Test 2: Numerical Ability (TCS NQT 2025)

NUMERICAL ABILITY (APTITUDE)

00:28:42

questionNumberPrefix 15 of 26 marks : 1.0, -0.0

A & B are 2 numbers . A is 1255 more than B. If A is divided by B, the quotient is 2 and remainder 25. What is the value of B?

[Asked in TCS NQT 2020]

[This test belongs to Paid Members of KNOWLEDGE GATE]

#PYQ #PLACEMENTS #APTITUDE #NUMBERSYSTEM #TCS #2020

(A) 1230

(B) 1250

(C) 1280

(D) 2535

$1255 + B = B * 2 + 25$
 $b = 1230$

☆ MARKFORREVIEW CLEAR

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Test 2: Numerical Ability (TCS NQT 2025)

NUMERICAL ABILITY (APTITUDE)

00:28:40

questionNumberPrefix 16 of 26 marks : 1.0, -0.0

1050 students take any of the following subjects as their specialization - Physics, Chemistry and Biology. If the number of students opting for Biology is 1.5 times the number of students opting for Physics and Chemistry each, then how many students opt for Chemistry ?

[Asked in TCS NQT 2020]

[This test belongs to Paid Members of KNOWLEDGE GATE]

#PYQ #PLACEMENTS #APTITUDE #MENTALABILITY #TCS #2020

(A) 250

(B) 300

(C) 350

(D) 450

$S_b = S_p = 1.5 S_c$

$S_b + S_p + S_c = 1050$
 $1.5S_p + S_p + S_p = 1050$
 $sp = 300 = S_c$

☆ MARKFORREVIEW CLEAR

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Knowledge Gate

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Test 2: Numerical Ability (TCS NQT 2025)

NUMERICAL ABILITY (APTITUDE)

00:28:38

questionNumberPrefix 17 of 26 marks : 1.0, -0.0

M is 30% of Q is 20% of P and N is 50% of P. What is the value of M/N ?

[Asked in TCS NQT 2021]

[This test belongs to Paid Members of KNOWLEDGE GATE]

#PYQ #PLACEMENTS #APTITUDE #PERCENTAGES #TCS #2021

(A) 3/10

(B) 3/25

(C) 2/5

(D) 3/20

☆ MARKFORREVIEW CLEAR 17 OF 26 NEXT

Knowledge Gate

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Test 2: Numerical Ability (TCS NQT 2025)

NUMERICAL ABILITY (APTITUDE)

00:28:37

questionNumberPrefix 18 of 26 marks : 1.0, -0.0

A retailer buys 40 pens at a marked price of 36 pens from a wholesaler. If he sells these pens giving a discount of 1%, what is his profit percent ? [Asked in TCS NQT 2019]

[This test belongs to Paid Members of KNOWLEDGE GATE]

#PYQ #PLACEMENTS #APTITUDE #PROFIT&LOSS #TCS #2019

A retailer buys 40 pens at a marked price of 36 pens from a wholesaler. If he sells these pens giving 1% discount what will his profit

(A) 5

(B) 6

(C) 10

(D) 12

☆ MARKFORREVIEW CLEAR 18 OF 26 NEXT

Knowledge Gate

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Test 2: Numerical Ability (TCS NQT 2025)

NUMERICAL ABILITY (APTITUDE)

00:28:35

questionNumberPrefix 19 of 26 marks : 1.0, -0.0

What is the difference when 121212..... (300 digits) is divided by 99 ?

[Asked in TCS NQT 2018]

[This test belongs to Paid Members of KNOWLEDGE GATE]

#PYQ #PLACEMENTS #APTITUDE #NUMBERSYSTEM #TCS #2018

(A) 18

(B) 36

(C) 72

(D) 0

☆ MARKFORREVIEW CLEAR

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NEXT

Knowledge Gate

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Test 2: Numerical Ability (TCS NQT 2025)

NUMERICAL ABILITY (APTITUDE)

00:28:33

questionNumberPrefix 20 of 26 marks : 1.0, -0.0

The numbers 272738 and 232342, when divided by a two digit number, leaves a remainder of 13 and 17 respectively . Find the sum of the digits of n .

[Asked in TCS NQT 2020]

[This test belongs to Paid Members of KNOWLEDGE GATE]

#PYQ #PLACEMENTS #APTITUDE #NUMBERSYSTEM #TCS #2020

(A) 7

(B) 9

(C) 10

(D) 12

☆ MARKFORREVIEW CLEAR

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NEXT

Knowledge Gate

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Test 2: Numerical Ability (TCS NQT 2025)

NUMERICAL ABILITY (APTITUDE)

00:28:31

questionNumberPrefix 21 of 26 marks: 1.0, -0.0

Value of $(222224 * 444445 * 222221 + 666668) / (222222)^2$

[Asked in TCS NQT 2019]

[This test belongs to Paid Members of KNOWLEDGE GATE]

#PYQ #PLACEMENTS #APTITUDE #ARITHMETIC #TCS #2019

let $x = 222222$

(A) 222222

(B) 222227

(C) 444444

(D) 444447

$$\frac{((x+2) * (2x+1) * (x-1) + (3x+2))}{x^2}$$

$$2x+3 = 2 * 222222 + 3 = 444447$$

☆ MARKFORREVIEW CLEAR 21 OF 26 NEXT

Knowledge Gate

learn.knowledgegate.ai/learn/mock-test/326799?mode=0&qid=1055842&resultType=2&lessonId=1862822

Test 2: Numerical Ability (TCS NQT 2025)

NUMERICAL ABILITY (APTITUDE)

00:28:30

questionNumberPrefix 22 of 26 marks: 1.0, -0.0

The ratio between the speeds of two trains is 7:8. If the second train runs 400 kms in 4 hours, then the speed of the first train is :

[Asked in TCS NQT 2021]

[This test belongs to Paid Members of KNOWLEDGE GATE]

#PYQ #PLACEMENTS #APTITUDE #TRAINPROBLEMS #TCS #2021

(A) 70 km/hr

(B) 75 km/hr

(C) 84 km/hr

(D) 87.5 km/hr

☆ MARKFORREVIEW CLEAR 22 OF 26 NEXT

Knowledge Gate

learn.knowledgegate.ai/learn/mock-test/326799?mode=0&qid=10558426&resultType=2&lessonId=1862822

Test 2: Numerical Ability (TCS NQT 2025)

NUMERICAL ABILITY (APTITUDE)

00:28:27

questionNumberPrefix 23 of 26 marks: 1.0, -0.0

Equation of a plane is $7x + 17y + 3z = 54$. Find the difference between length of x intercept and that of z intercept ? [Asked in TCS NQT 2021]

[This test belongs to Paid Members of KNOWLEDGE GATE]

#PYQ #PLACEMENTS #APTITUDE #MENSURATION&GEOMETRY #TCS #2021

(A) 2/7 for x intercept set $y = z = 0$ for x intercept set $y = z = 0$
 $7x + 0 + 0 = 54 \Rightarrow x = |54/7|$ $0 + 0 + 3z = 54 \Rightarrow z = 18$

(B) 37/3

(C) 122/8 $|18 - (54/7)| \Rightarrow 72/7$

(D) 123/7

☆ MARKFORREVIEW CLEAR 23 OF 26 NEXT

Knowledge Gate

learn.knowledgegate.ai/learn/mock-test/326799?mode=0&qid=10558427&resultType=2&lessonId=1862822

Test 2: Numerical Ability (TCS NQT 2025)

NUMERICAL ABILITY (APTITUDE)

00:28:26

questionNumberPrefix 24 of 26 marks: 1.0, -0.0

A merchant buys 20 kg of wheat at Rs. 30 per kg and 40 kg wheat at Rs. 25 per kg. He mixed them and sells one third of the mixture at Rs. 26 per kg. The price at which the merchant should sell the remaining mixture, so that he may earn a profit of 25% in his whole outlet is .

[Asked in TCS NQT 2018]

[This test belongs to Paid Members of KNOWLEDGE GATE]

#PYQ #PLACEMENTS #APTITUDE #PROFIT&LOSS #TCS #2018

(A) Rs 30 $20\text{kg} * 30 = 600$ one third at 26rs $\Rightarrow 20 * 26 = 520\text{rs}$

(B) Rs 36 $40\text{kg} * 25 = 1000$ $60\text{kg} = 1600$ to get 25% $\Rightarrow 1600 * (125/100) = 2000$

(C) Rs 40 $2000 - 520 = 1480$

(D) Rs 37 $1480/40\text{kg}(\text{ramining}) = 37\text{rs/kg}$

☆ MARKFORREVIEW CLEAR 24 OF 26 NEXT

Knowledge Gate

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Test 2: Numerical Ability (TCS NQT 2025)

NUMERICAL ABILITY (APTITUDE)

00:28:24

questionNumberPrefix 25 of 26 marks: 1.0, -0.0

In how many ways can we distribute 10 identical pencil into 4 students so that each student get at least 1 pencil ? [Asked in TCS NQT 2021]

[This test belongs to Paid Members of KNOWLEDGE GATE] in how many ways can we distribute. 10 identical pencil into 4 students so that each student get at least 1 pencil

#PYQ #PLACEMENTS #APTITUDE #P&C #TCS #2021

(A) 64

(B) 72

(C) 78

(D) 84

☆ MARKFORREVIEW CLEAR 25 OF 26 NEXT

Knowledge Gate

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Test 2: Numerical Ability (TCS NQT 2025)

NUMERICAL ABILITY (APTITUDE)

00:28:21

questionNumberPrefix 26 of 26 marks: 1.0, -0.0

Enter the missing figure :

56, 458,, 1262, 1664 [Asked in TCS NQT 2018]

[This test belongs to Paid Members of KNOWLEDGE GATE]

#PYQ #PLACEMENTS #APTITUDE #SEQUENCE&SERIES #TCS #2018

(A) 660 402 +

(B) 890

(C) 950

(D) 980

☆ MARKFORREVIEW CLEAR 26 OF 26 NEXT