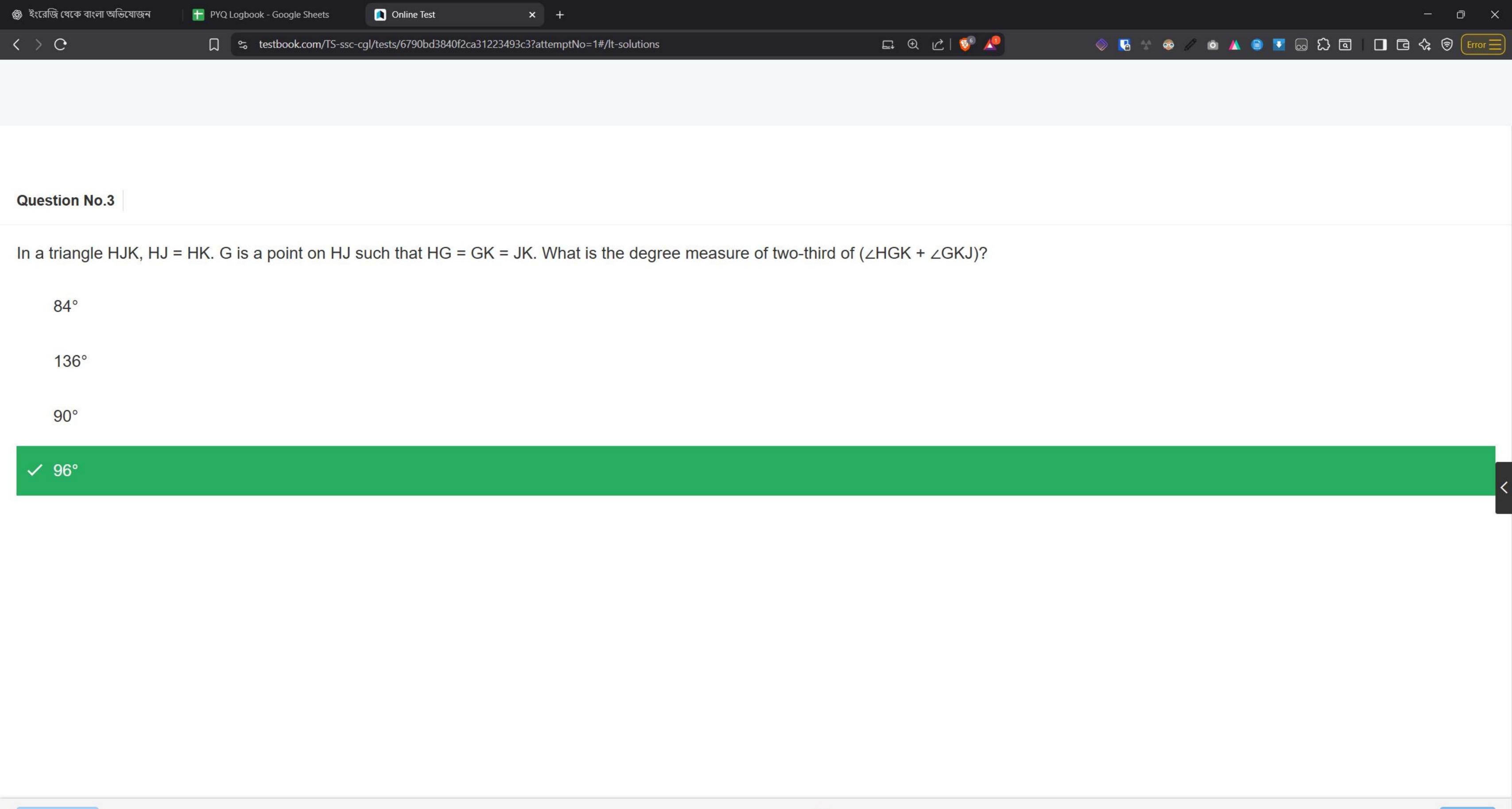
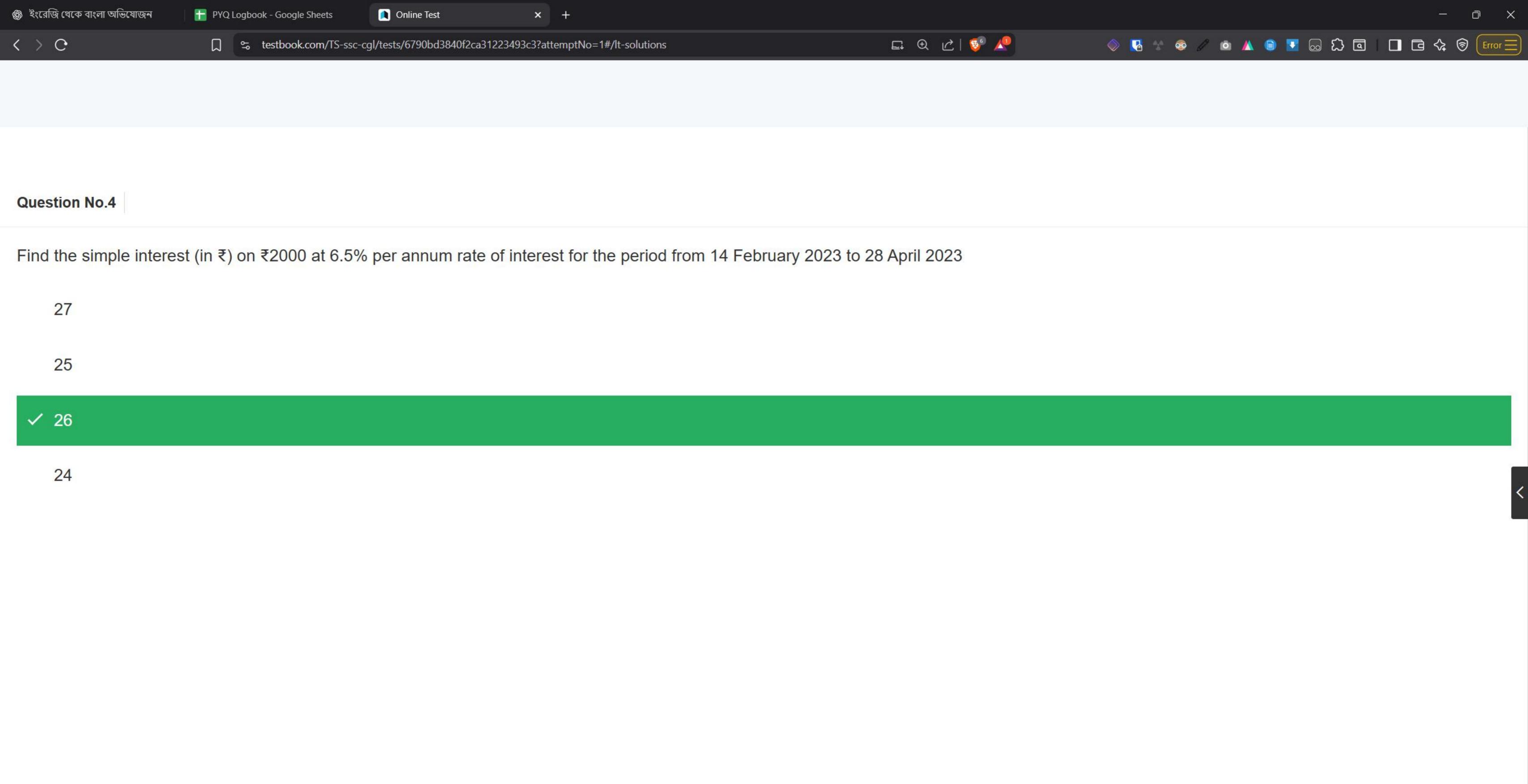


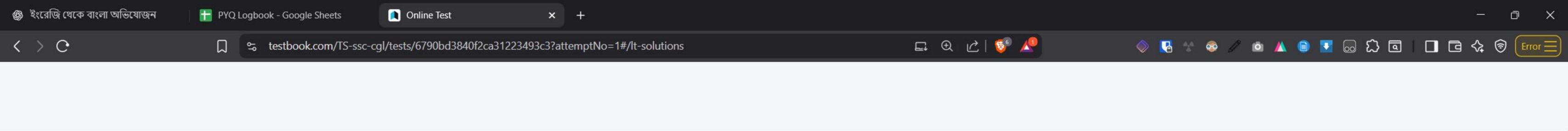
On a 2200 m long circular track, Sarita and Kavita drove their cycles from the same point but in opposite direction with the speeds 20 km/hr and 16 km/hr, respectively. After how much time will they meet again for the first time?

#### ✓ 3 minutes 40 seconds

- 3 minutes 20 seconds
- 2 minutes 50 seconds
- 2 minutes 20 seconds







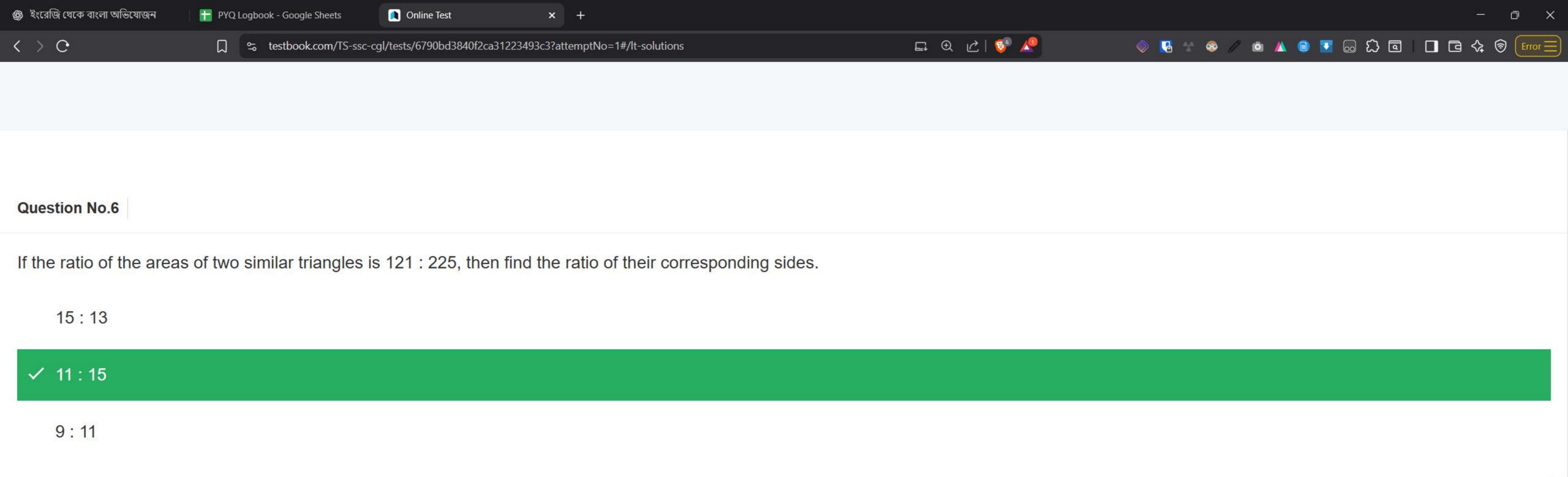
The population of a place increased to 50,000 from 2016 to 2018 at the rate of 6% per annum, and continued the same trend for the next 3 years. If A is the population in 2016 and B is the population in 2020, both are approximated to the next possible integers, then the value of B - A is:



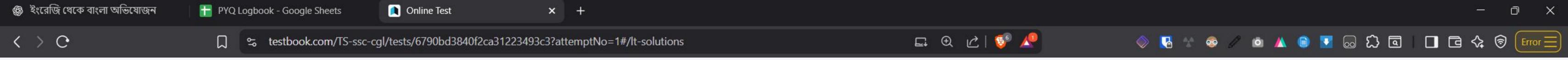
Previous







11:13



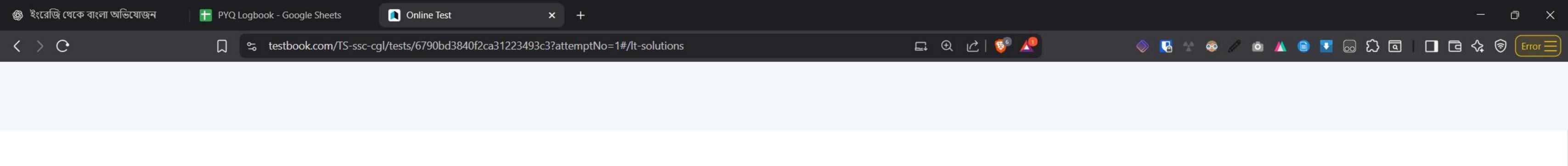
Find the value of Y, if X - 2Y + 2Z = 16, X - Y + Z = 9 and 2X - 3Y - Z = 9.

4

2

-4

✓ -3



Rani and Adya, working separately, can finish a task in 12 days and 16 days, respectively. They work in stretches of one day alternately. If Rani starts working first, then the task will be completed in

- $12\frac{1}{3}$  days
- $12\frac{2}{3}$  days

## $\checkmark~13rac{2}{3}$ days

 $13\frac{1}{3}$  days

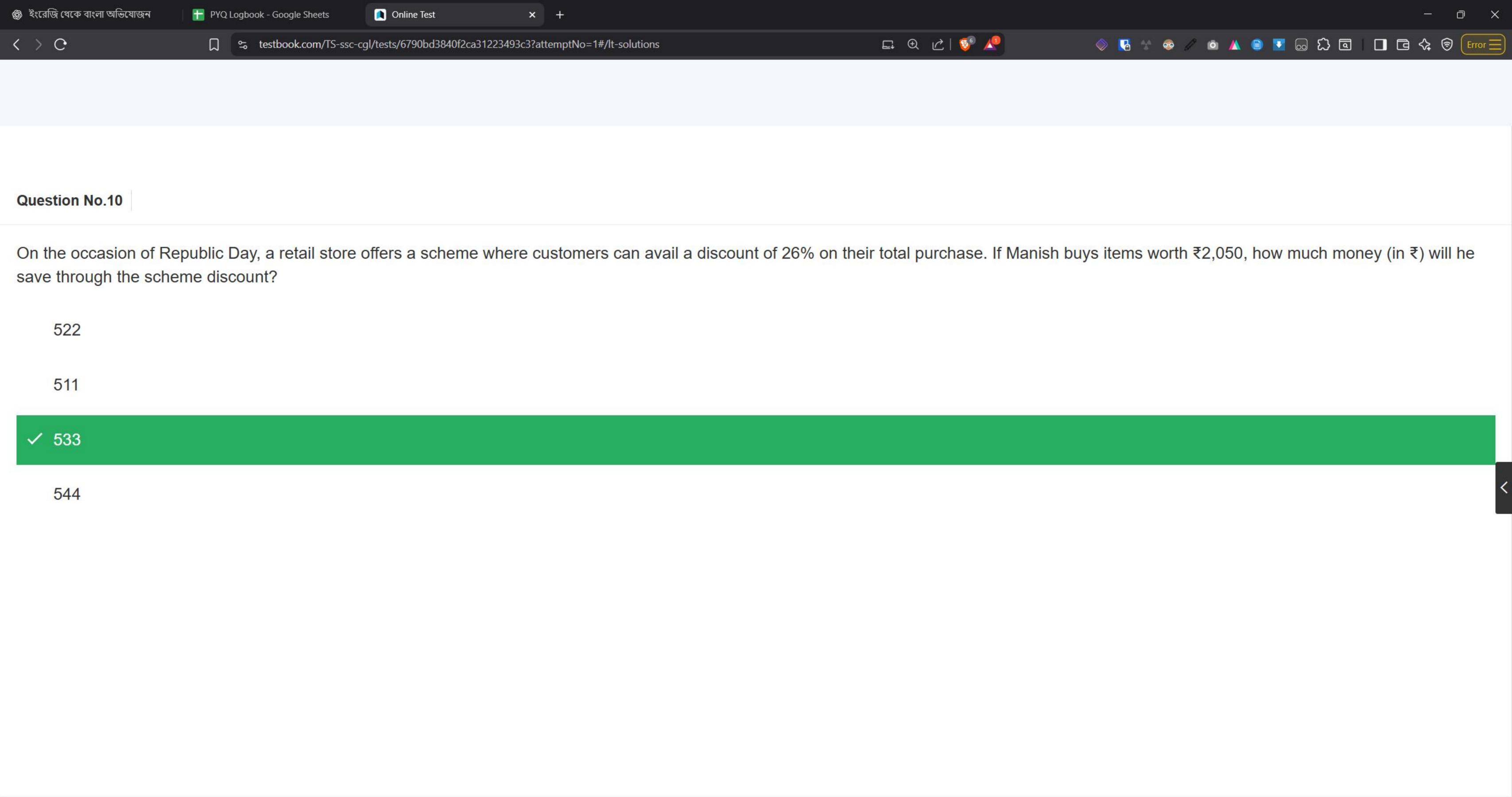


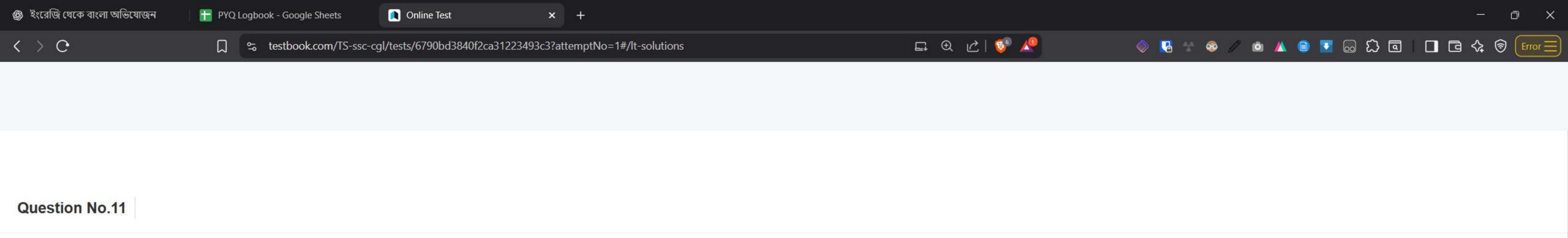
Let A and B be two players who are playing the game to hit the target. The probabilities of hitting the target by A and B is  $\frac{2}{3}$  and  $\frac{3}{4}$ , respectively. What is the probability that exactly one of them hit the target?

 $\frac{7}{12}$ 

-







Vessel A contains milk and water in the ratio 4:5. Vessel B contains milk and water in the ratio 2:1. If x litres mixture of A is mixed with y litres mixture of B, then the ratio of milk to water in the mixture becomes 8:5. Find the ratio x:y.

5:6

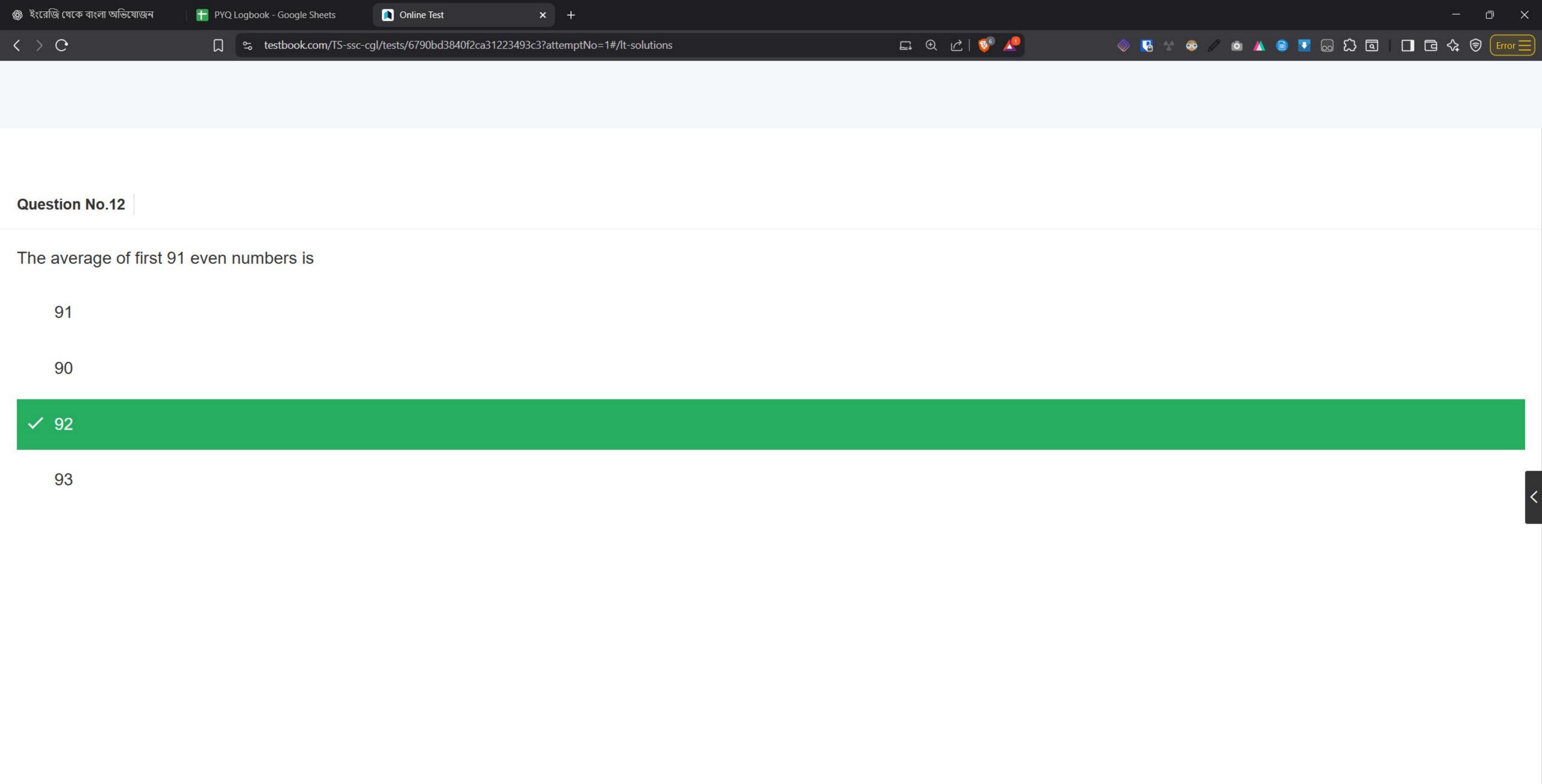
✓ 3:10

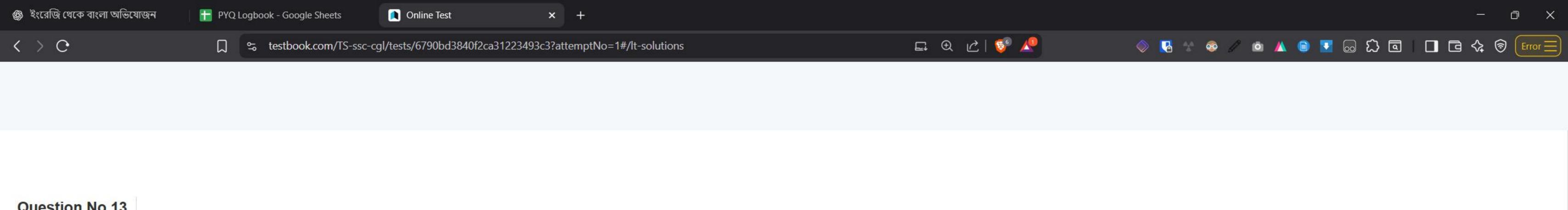
2:5

۷. ۱

3:4

Previous





Find the volume (in cm<sup>3</sup>, rounded off to 2 decimal places) of a right circular cone of diameter 12 cm and height 5 cm. [Use  $\pi = \frac{22}{7}$ ]

197.25

156.39

#### **✓** 188.57

147.23



Online Test

☐ \$\square\$ testbook.com/TS-ssc-cgl/tests/6790bd3840f2ca31223493c3?attemptNo=1#/lt-solutions

× +















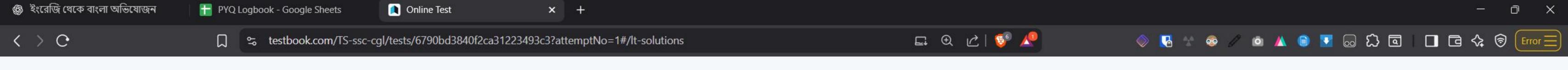
#### **Question No.14**

 $\langle \cdot \rangle$  C

$$\frac{\sqrt[3]{6859}}{\sqrt[4]{1296}} \times \frac{3}{57} \times 42 = ?$$

## **✓** 7

-3

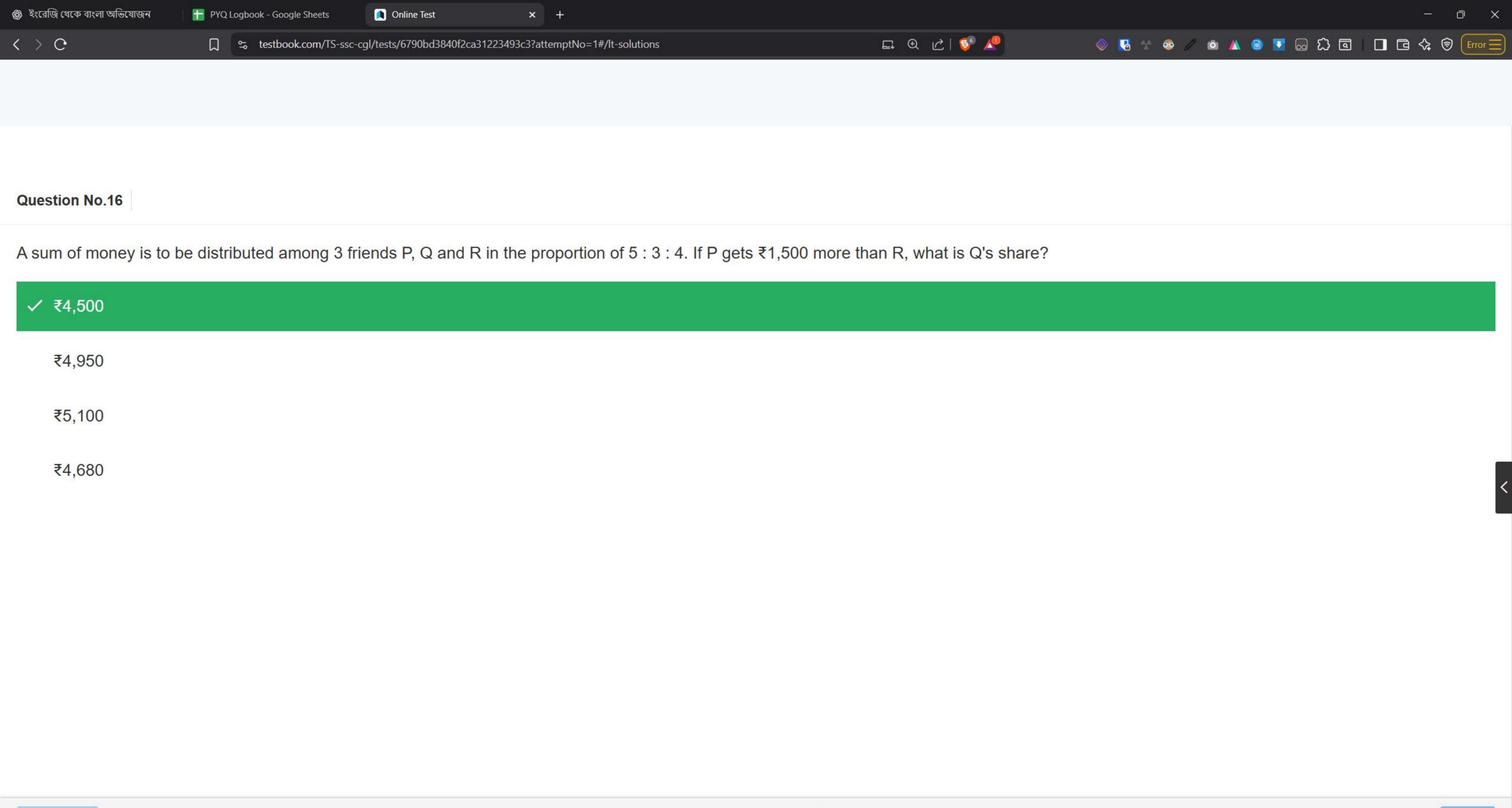


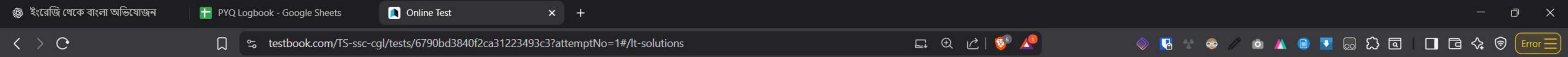
If  $x = 8 + \sqrt{5}$  and  $y = 8 - \sqrt{5}$  then the value of  $x^2 + y^2$  is:

✓ 138

143

140



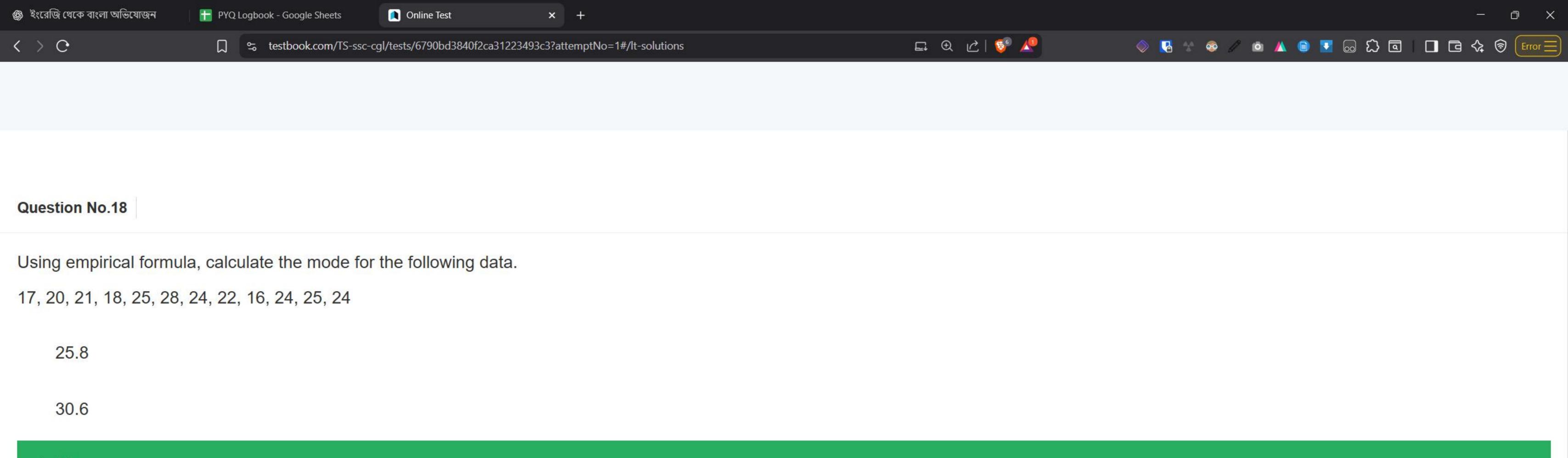


If tan(x + y) tan(x - y) = 1, then find the value of tanx.

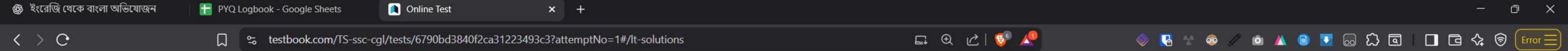
 $\sqrt{3}$ 

$$\frac{1}{2\sqrt{3}}$$

$$\frac{1}{\sqrt{3}}$$

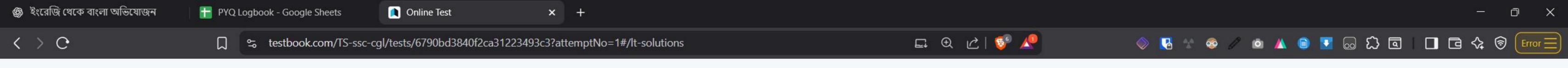


✓ 25



If  $\frac{\sec \theta - \tan \theta}{\sec \theta + \tan \theta} = \frac{1}{9}$ ,  $\theta$  lies in the first quadrant, then the value of  $\frac{\sin \theta - \tan^2 \theta}{\sin \theta + \tan^2 \theta}$  is:

 $\frac{13}{27}$ 



 $\frac{\left(a^7 imes b^8 imes c^7\right)}{\left(a^9 imes b^5 imes c^4\right)}$  in simplified form is:

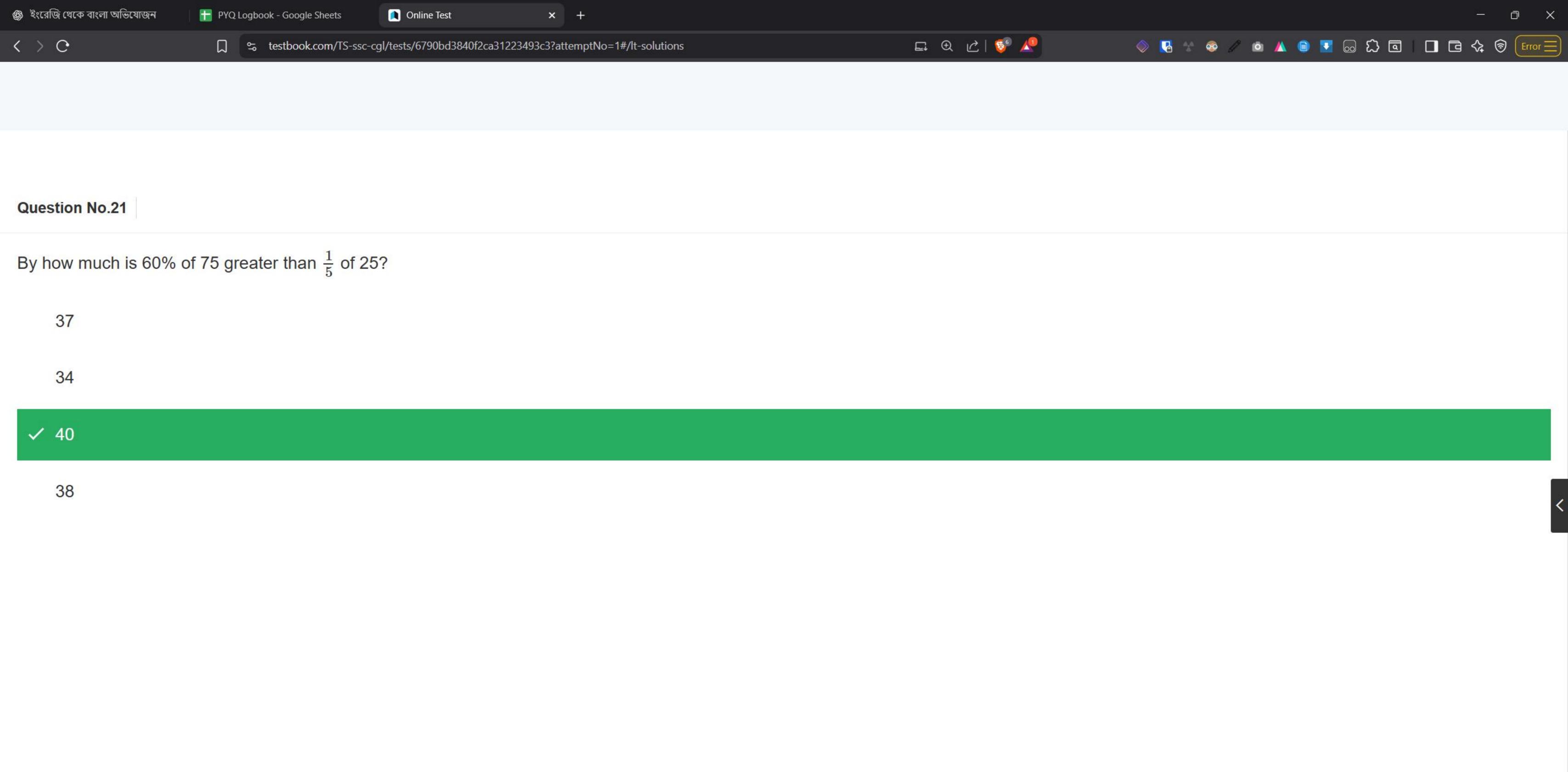
$$(a^{-5}) \times (b^{-8}) \times (c^{0})$$

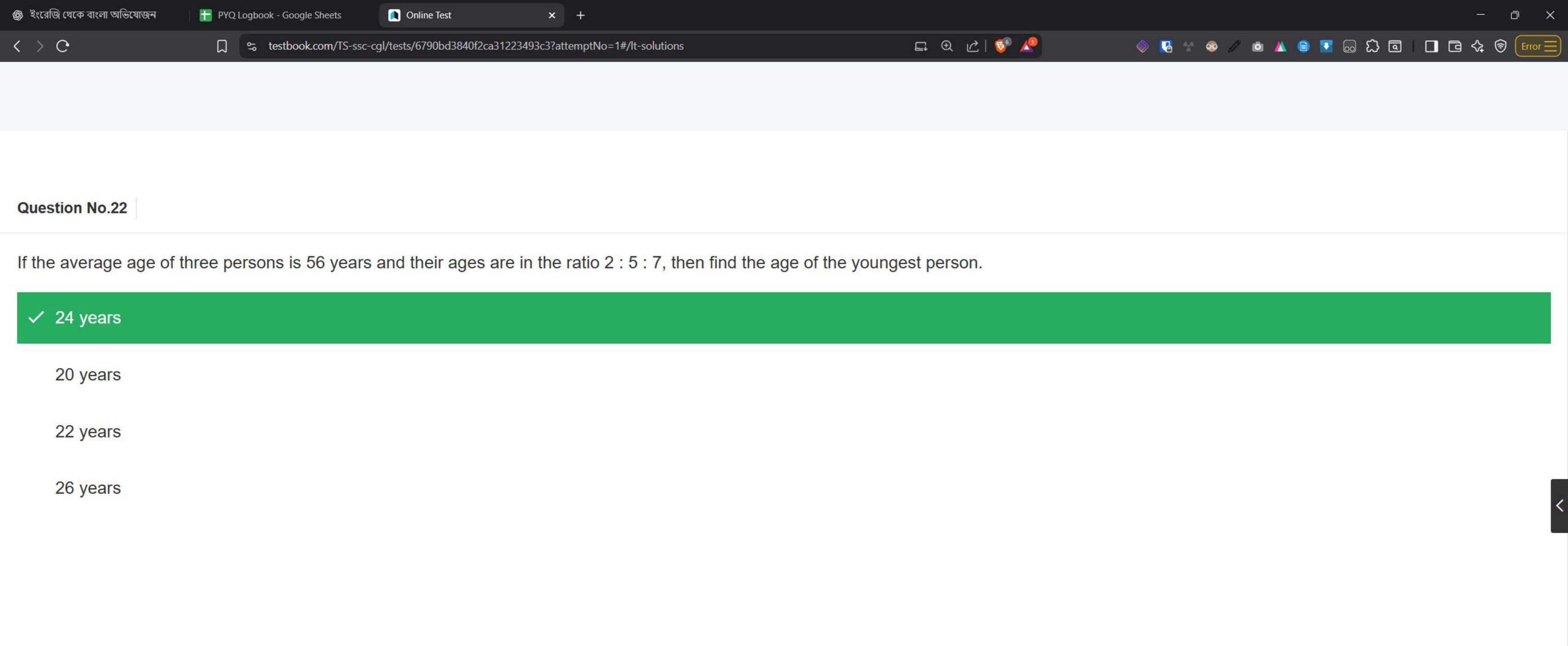
$$(a^{-7}) \times (b^2) \times (c^{-4})$$

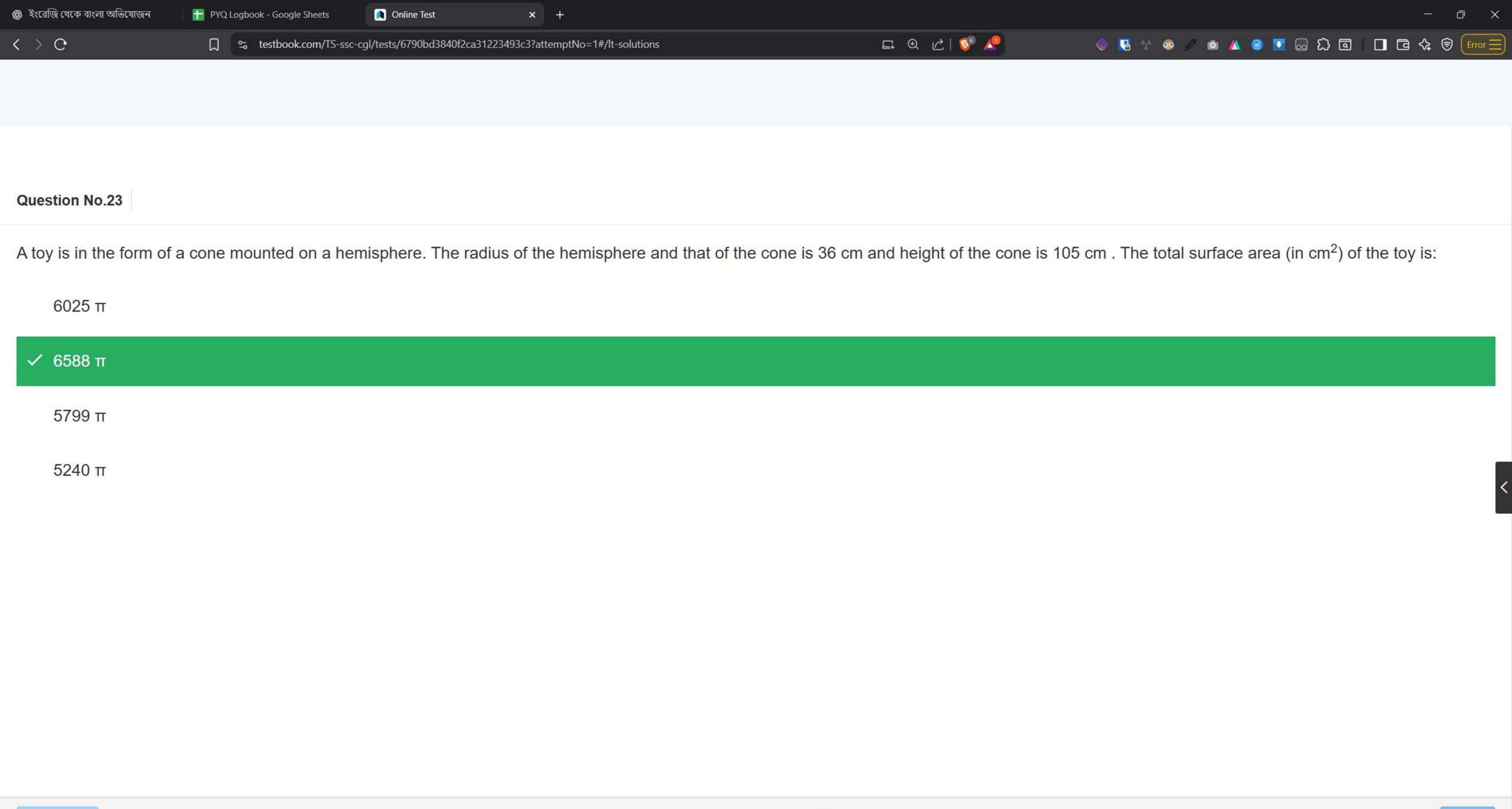
$$\checkmark$$
 (a<sup>-2</sup>) × (b<sup>3</sup>) × (c<sup>3</sup>)

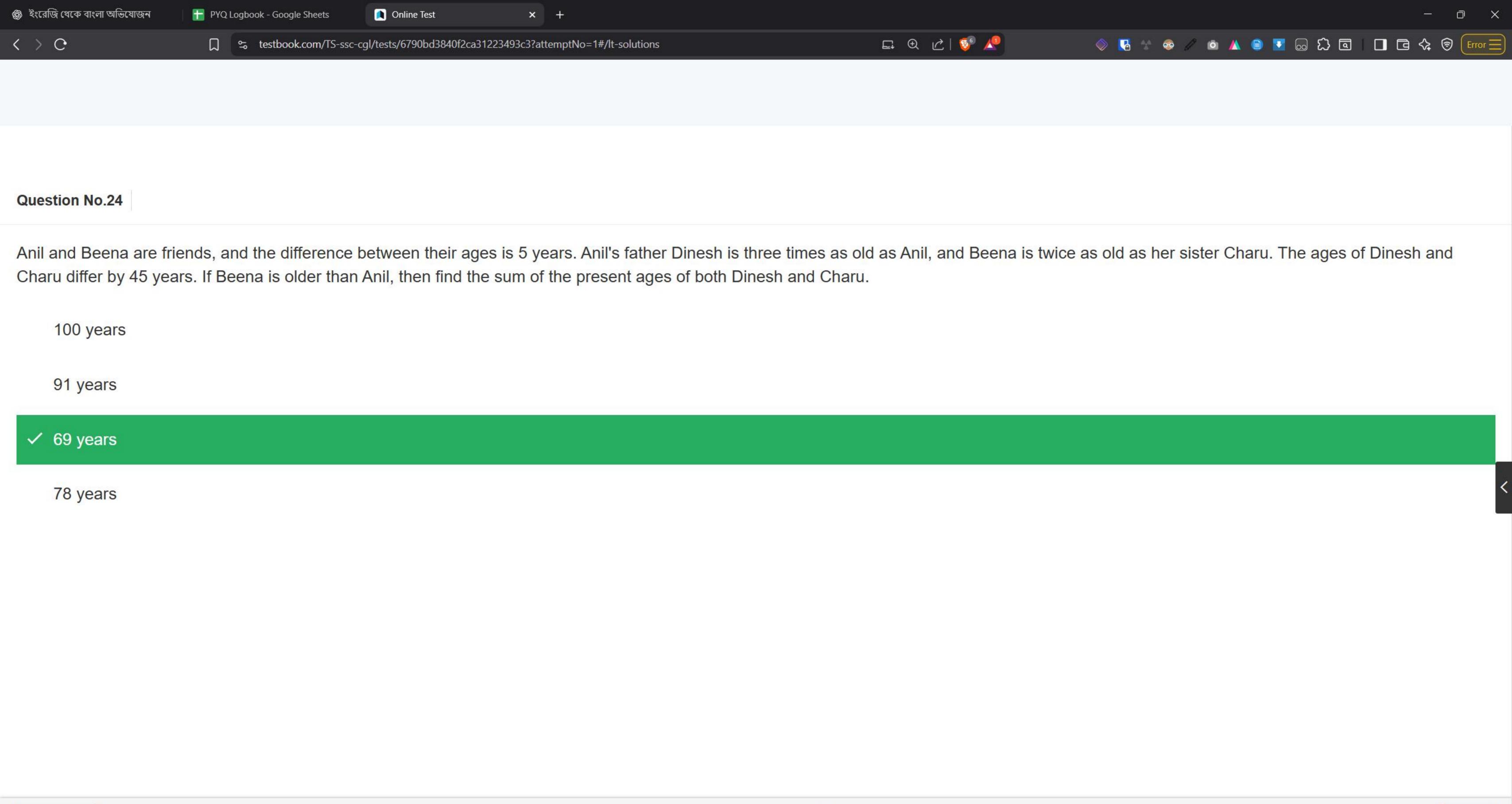
$$(a^0) \times (b^2) \times (c^1)$$

Next



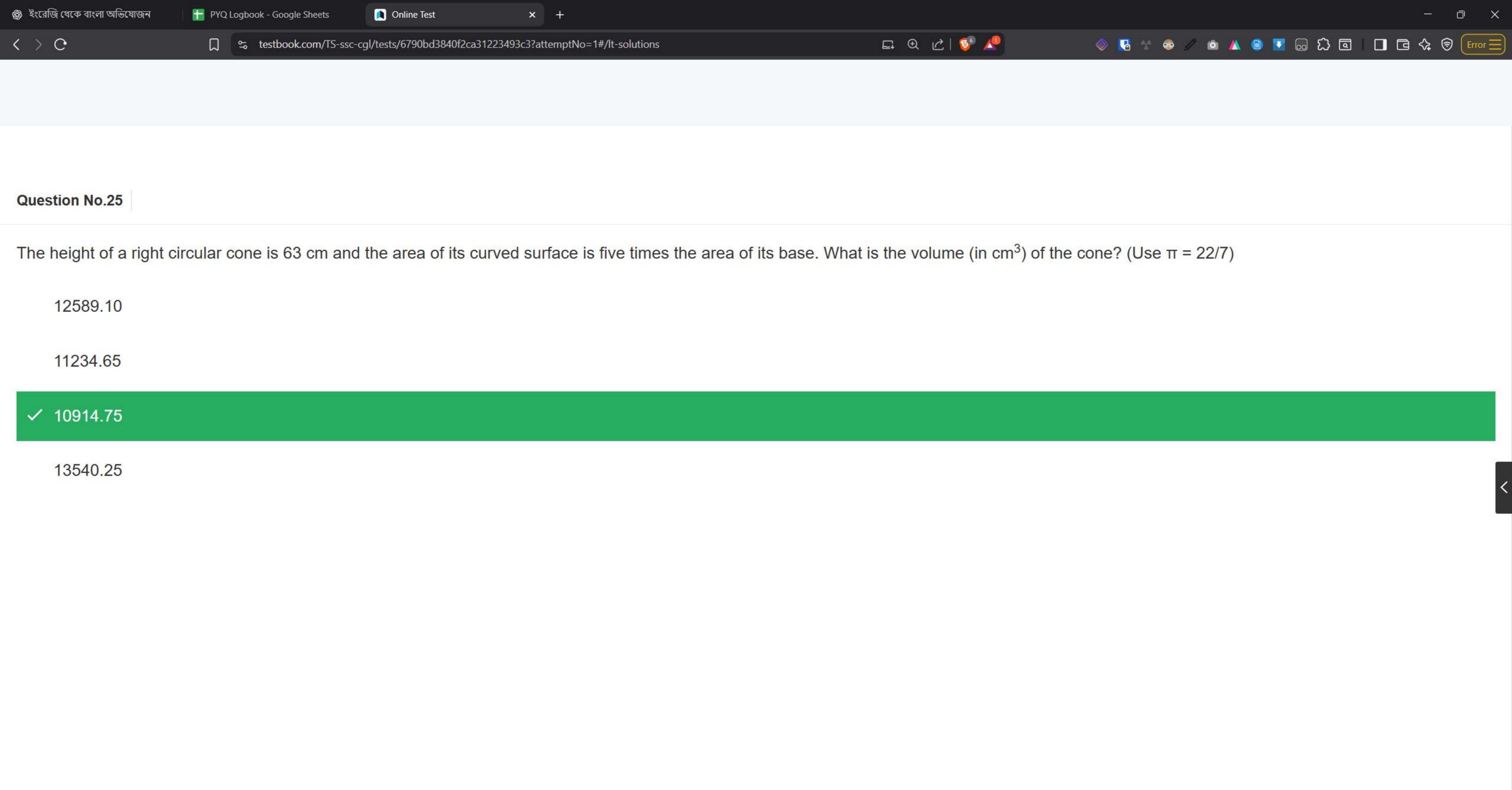


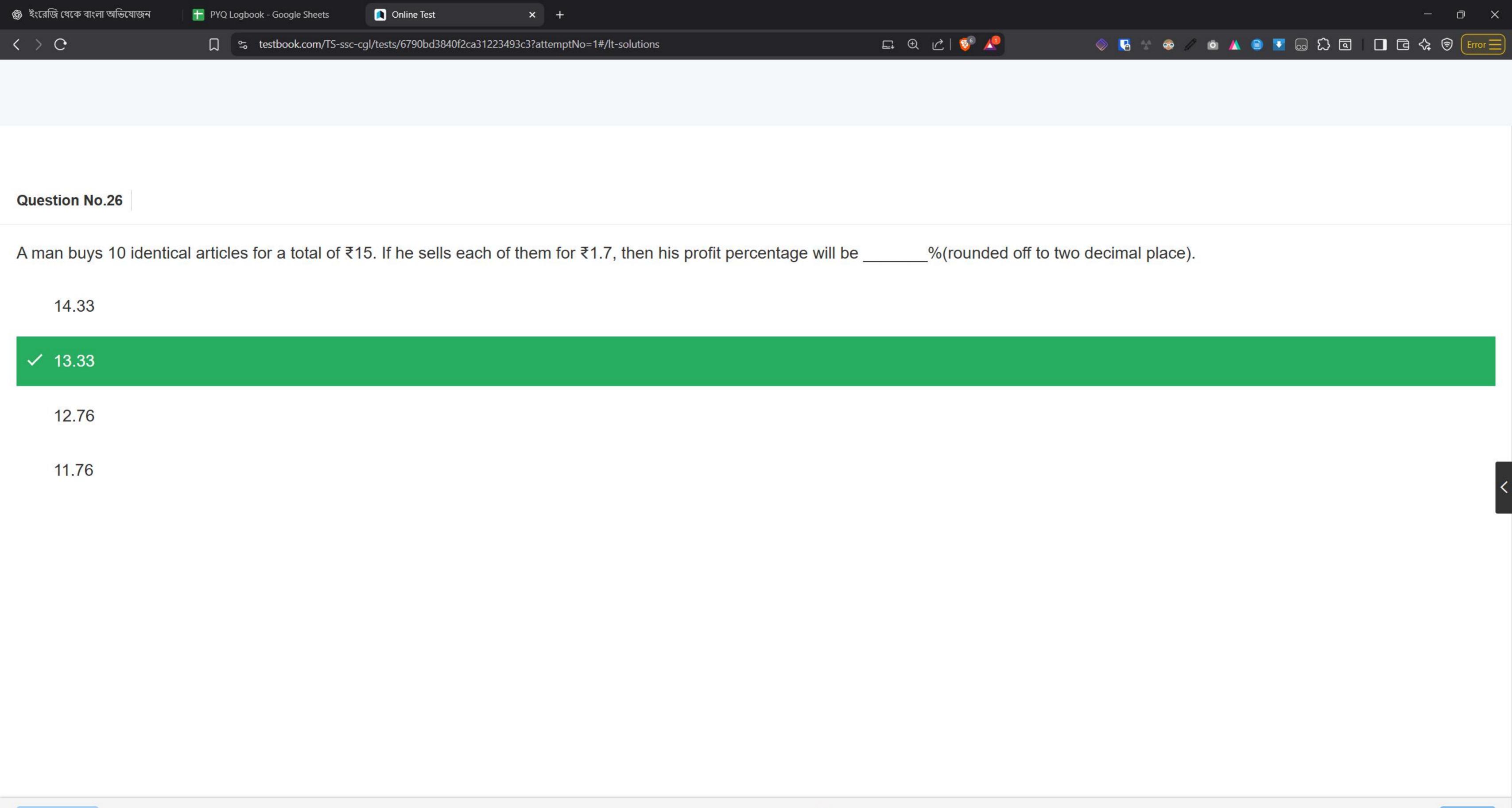


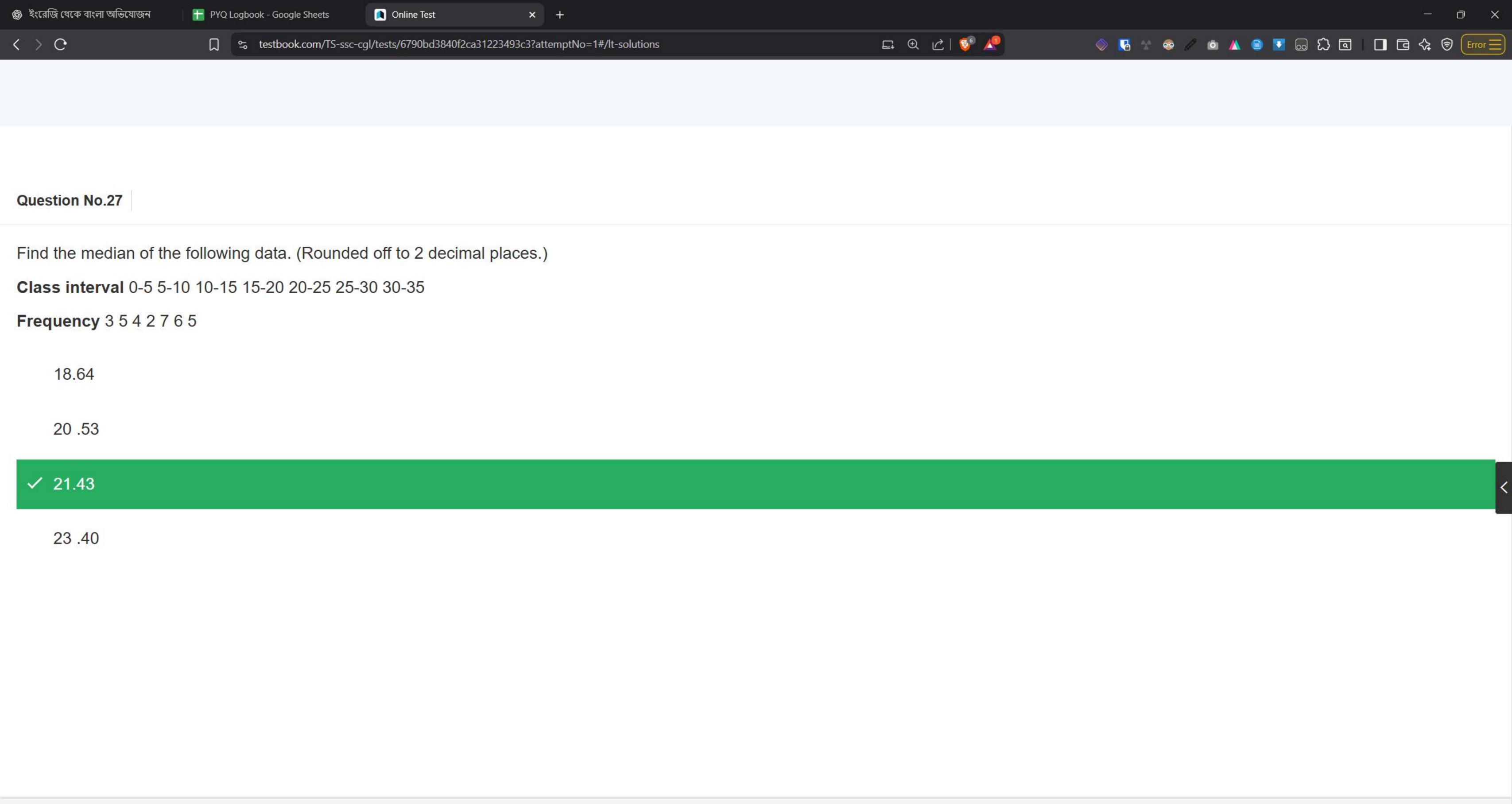


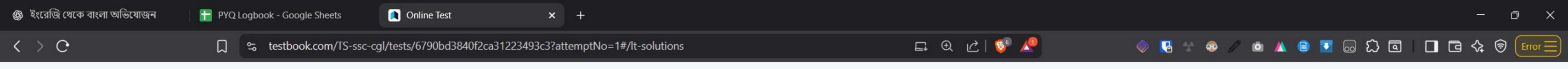












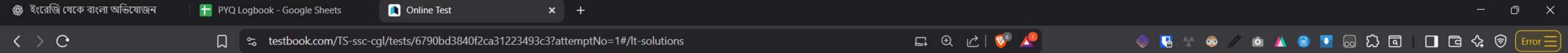
Let ABC be a right-angled triangle with a right angle at B. If tan A = √3, then find the value of sin A cos C + cos A sin C and cos A cos C - sin A sin C.

$$\frac{\sqrt{3}}{2}, \frac{\sqrt{3}}{2}$$

$$\frac{1}{2}, \frac{1}{2}$$

### **✓** 1,0

$$\frac{\sqrt{3}}{2}, \frac{1}{2}$$



Simplify  $(5z - 12y)^2 + (12z + 5y)^2 - 144z^2$ 

# $\checkmark$ 25z<sup>2</sup> + 169y<sup>2</sup>

 $23z^2 + 177y^2$ 

 $23z^2 + 174y^2$ 

 $30z^2 + 170y^2$ 

্জ্ৰ ইংরেজি থেকে বাংলা অভিযোজন 📔 PYQ Logbook - Google Sheets 🔳 Online Test × +

Next

#### **Question No.30**

 $\langle \cdot \rangle$  G

The value of  $4^3 - 0^2 + \left(\frac{22}{2}\right)^2 - 8 + 7 \times 6 =$ \_\_\_\_\_

☐ \$\testbook.com/TS-ssc-cgl/tests/6790bd3840f2ca31223493c3?attemptNo=1#/lt-solutions

218

224

✓ 219

229

Previous