

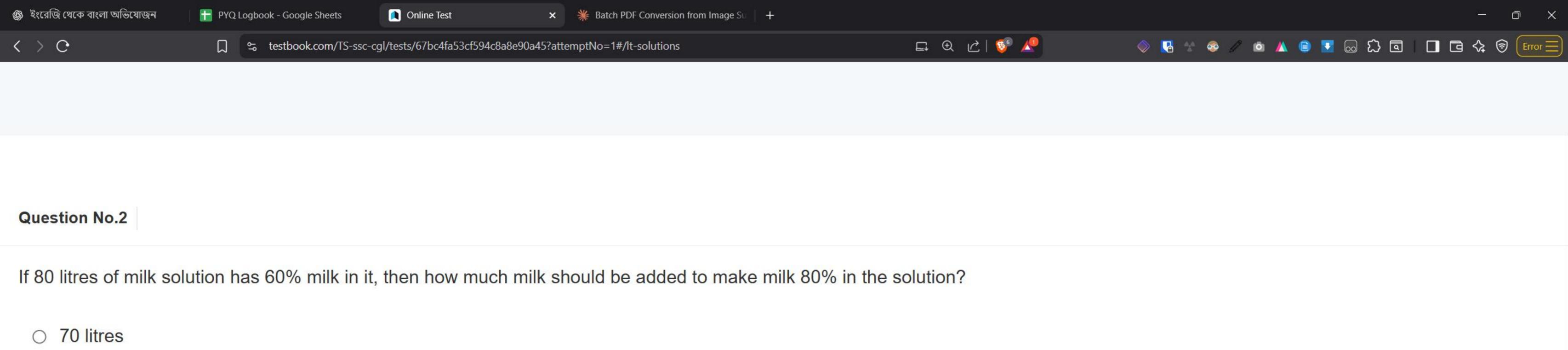
A pyramid has an equilateral triangle as its base, of which each side is 8 cm. Its slant edge is 24 cm. The whole surface area of the pyramid (in cm²) is:

$$(16\sqrt{3}+24\sqrt{35})$$

$$(12\sqrt{3}+24\sqrt{35})$$

$$(24\sqrt{3}+36\sqrt{35})$$

$$\checkmark (16\sqrt{3} + 48\sqrt{35})$$



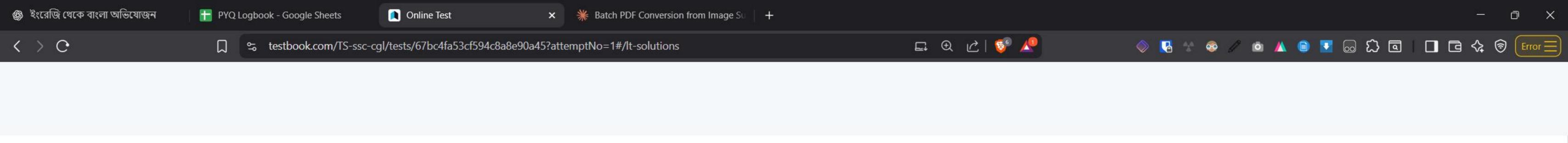
50 litres

O 60 litres

80 litres

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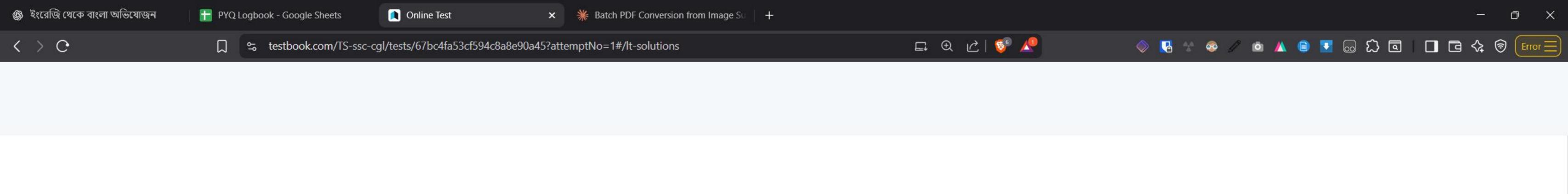




If the highest common factor (HCF) of x and y is 15, then the HCF of $36x^2 - 81y^2$ and $81x^2 - 9y^2$ is divisible by _____.

- O 135
- O 120
- O 180
- 0 90

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What is the perimeter of a square inscribed in a circle of radius 5 cm?

- O 20√2 cm
- 40√2 cm
- 30√2 cm
- O 10√2 cm

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Question No.5

 $\langle \cdot \rangle$ G

If the curved surface area of a cylinder is 126 π cm² and its height is 14 cm, what is the volume of the cylinder?

- \odot $283\frac{1}{2}$ π cm³
- \circ $137\frac{1}{2}$ π cm³
- \circ $128\frac{1}{2}$ π cm³
- \bigcirc 125 $\frac{1}{2}$ π cm³

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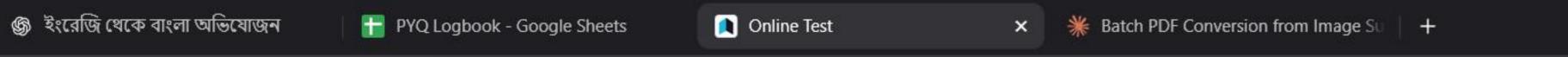
Question No.6

 $\langle \cdot \rangle$ G

Simplify the following.

$$\frac{\sqrt{10+\sqrt{25+\sqrt{108+\sqrt{154+\sqrt{225}}}}}{\sqrt{16+19.25\times4^2}}$$

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Question No.7

 $\langle \cdot \rangle$ G

A, B, and C invested capital in the ratio of 3:4:8. At the end of the business term, they received the profit in the ratio of 2:3:5. What is the ratio of their invested time?

- O 15:16:13
- O 13:18:15
- O 16:18:15
- O 16:21:18

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□ calculation = 1#/It-solutions

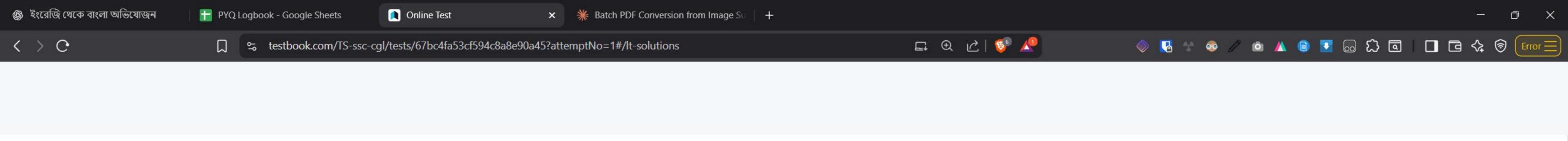
Question No.8

 $\langle \cdot \rangle$ G

The probabilities of solving a problem by three students A, B and C are $\frac{3}{7}$, $\frac{5}{9}$ and $\frac{1}{5}$ respectively. The probability that problem will be solved is:

- $\frac{155}{315}$
- $\frac{251}{315}$

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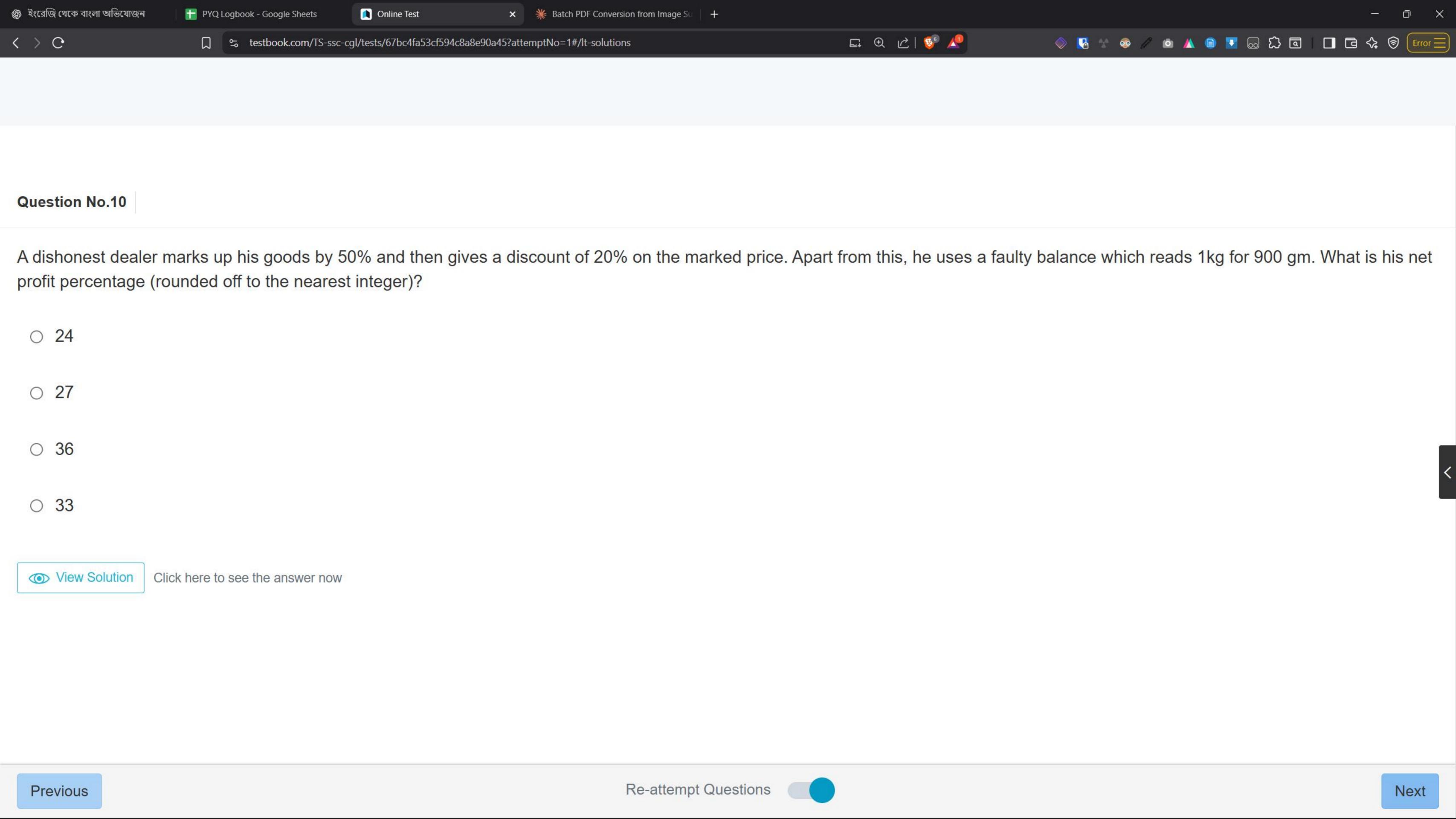


Reshma covers 45 km at a speed of 15 km/h by bicycle, 80 km at a speed of 40 km/h by car, and another 6 km at a speed of 2 km/h on foot. Find her average speed for the whole journey (correct to 2 decimal places).

- O 16.38 km/h
- 43.50 km/h
- O 18.36 km/h
- O 15.25 km/h

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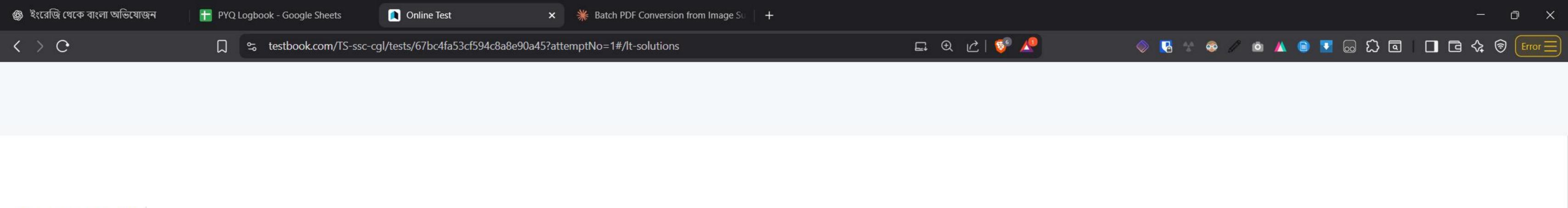




If $\triangle ABC$ is right angled at B, AB = 12 cm and $\angle CAB = 60^{\circ}$, determine the length of BC.

- 24√3 cm
- 12 cm
- O 12√2 cm
- O 12√3 cm

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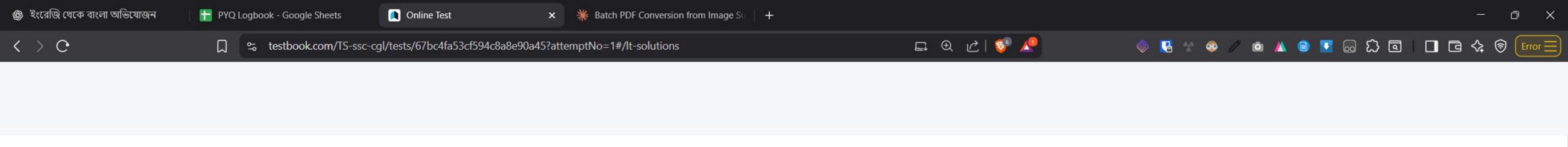


Find the number of diagonals of a regular polygon, sum of whose interior angles is 2700°

- 0 121
- 0 119
- O 127
- 0 117

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In 5 years, the simple interest on an amount of Rs. X is $\frac{2}{5}^{th}$ of the principal. The rate of interest per annum is:

- O 12%
- 8%
- O 10%
- O 5%

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Question No.14

 $\langle \cdot \rangle$ C

Find the value of given expression. $3 - (-6)\{-2 - 9 - 3\} \div 7\{1 + (-2)(-1)\}$

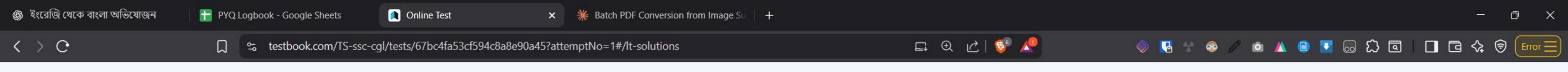
- O -1
- 0 15
- 0 7

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The difference between the length of two parallel sides of a trapezium is 12 cm. The perpendicular distance between these two parallel sides is 60 cm. If the area of the trapezium is 1380 cm², then find the length of each of the parallel sides (in cm).

- O 27, 15
- O 31, 19
- O 29, 17
- O 24, 12

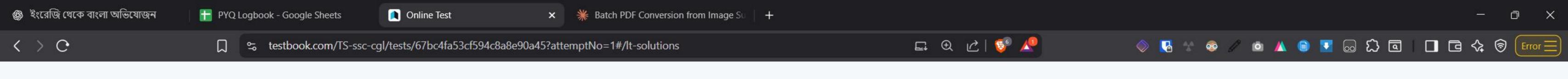
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For a sample data, mean = 60 and median = 48. For this distribution, the mode is:

- O 18
- O 48
- O 36
- O 24

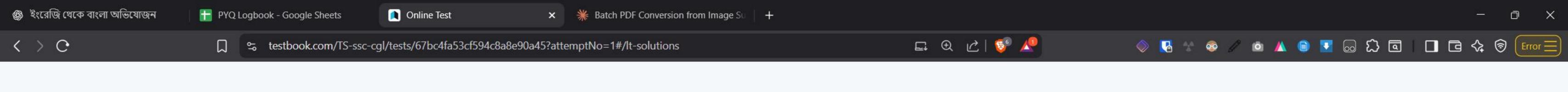
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The centroid of an equilateral triangle PQR is L. If PQ = 6 cm, the length of PL is:

- 4√3 cm
- 3√3 cm
- 2√3 cm
- 5√3 cm

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Find the exact value of cos 120°.

- 0 1
- \bigcirc 0
- O -0.5
- 0.5

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Question No.19

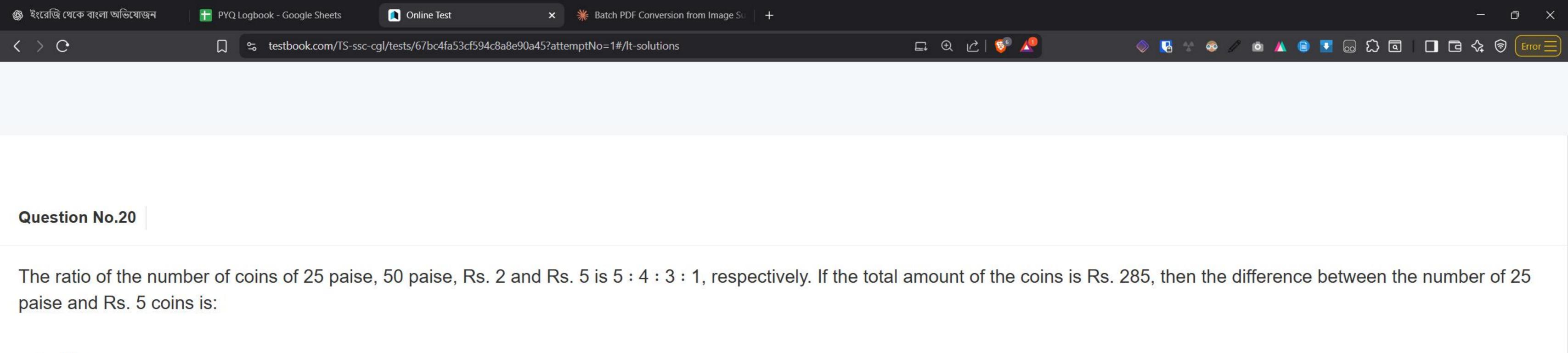
If $4x^2 + y^2 = 40$ and xy = 6, then find the value of 2x + y.

0 6

 $\langle \cdot \rangle$ C

- 0 8
- 0 5
- 0 4

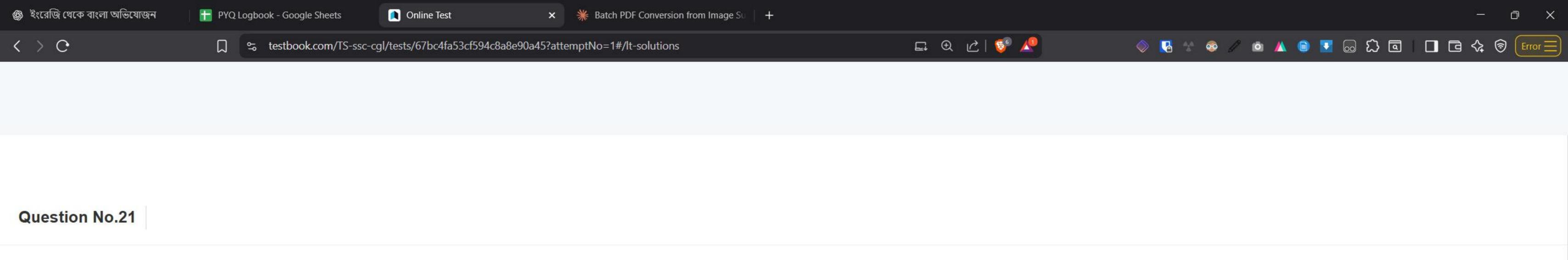
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- 080
- O 30
- O 40
- O 60

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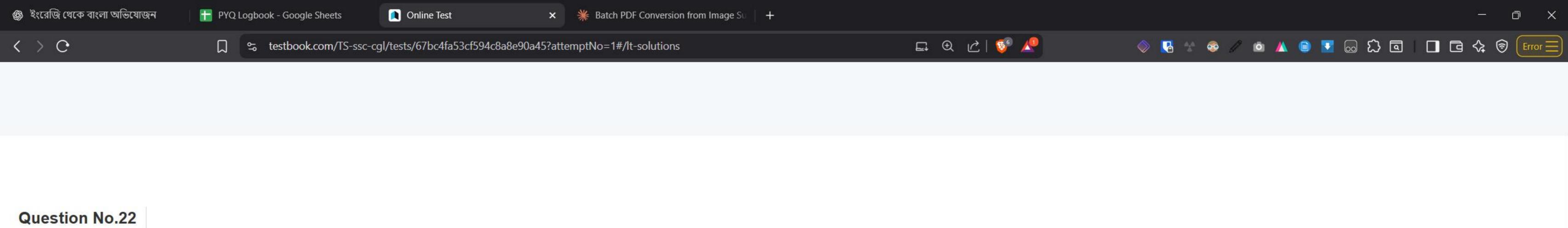


The average mark obtained by Saloni in four papers is 51, and in the fifth paper, she gets 56 marks. Find her new average in all five papers.

- O 51
- O 52
- 0 49
- O 50

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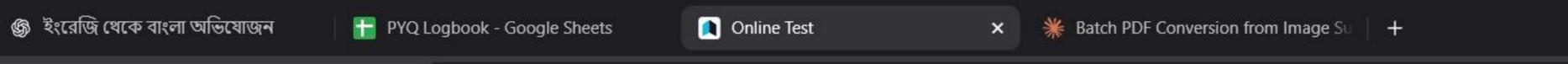


A and B can complete a work together in 48 days. A is 4 times as work efficient as B. In how many days can B alone complete the work?

- 220 days
- 320 days
- 240 days
- 120 days

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Question No.23

 $\langle \cdot \rangle$ C

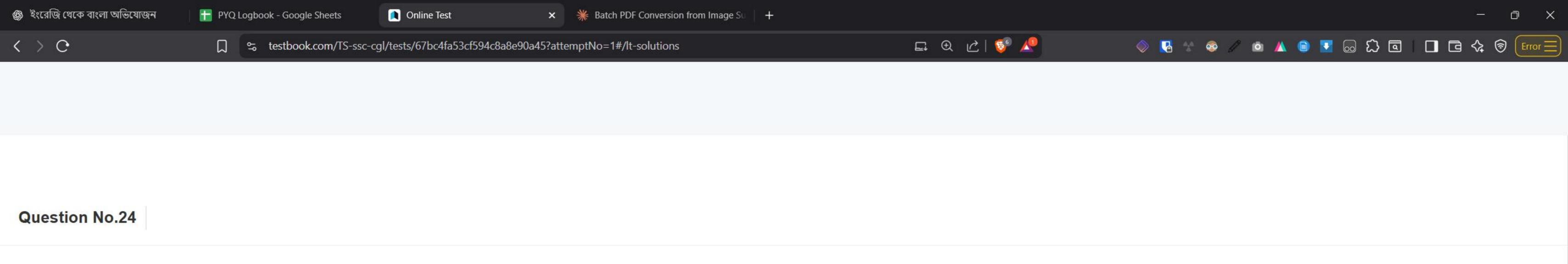
For what value of m will the system of equations 18x - 72y + 13 = 0 and 7x - my - 17 = 0 have no solution?

- O 28
- O 24
- 0 9
- 0 12

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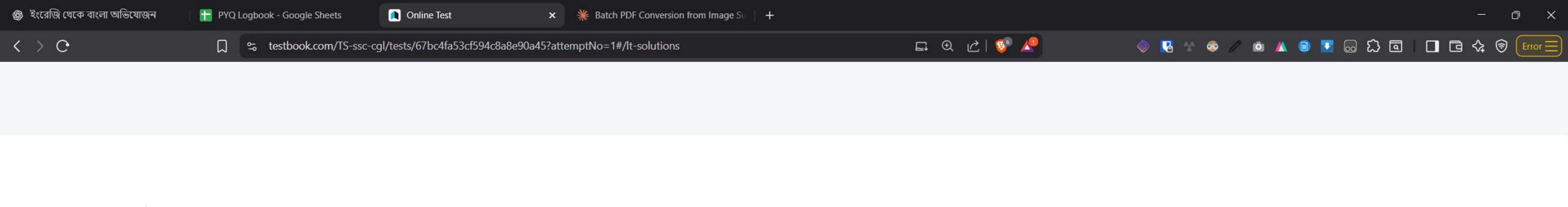


Successive discounts of 10% and 10% are equivalent to a single discount of:

- O 18%
- O 19%
- O 20%
- O 21%

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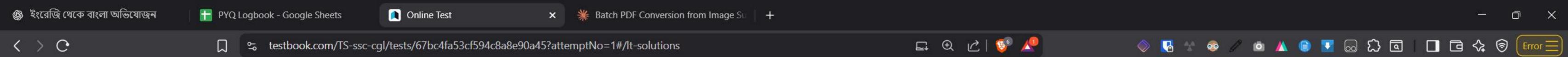


From the top of an upright pole 24√3 feet high, the angle of elevation of the top of an upright tower was 60°. If the foot of the pole was 60 feet away from the foot of the tower, what tall (in feet) was the tower?

- 84√3
- 36√3
- 44√3
- 60√3

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The mode of the following data is ______.

13, 15, 31, 12, 27, 13, 27, 30, 27, 28 and 16

- O 28
- O 27
- O 30

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Question No.27

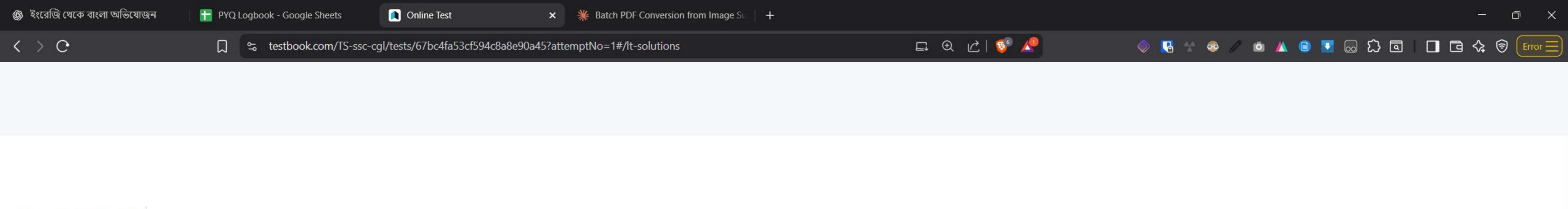
 $\langle \cdot \rangle$ G

Six years ago, the ratio of ages of A to B was 7:5. After 4 years from now, the ratio of their ages will be 11:9. What is A's age at present?

- \bigcirc $24\frac{1}{2}$ years
- \bigcirc $22\frac{1}{2}$ years
- \bigcirc $23\frac{1}{2}$ years
- \bigcirc $21\frac{1}{2}$ years

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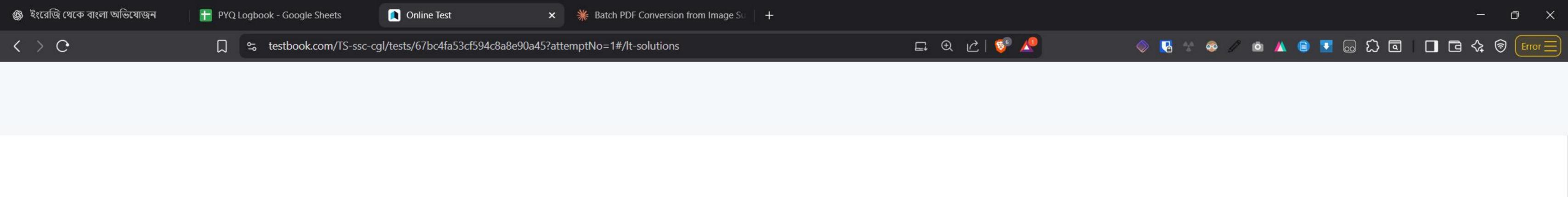


Mrs. Deepa Devi saves 30% of her salary. If she receives Rs. 42,000 per month as her salary, what is her monthly expenditure?

- O Rs. 29,200
- O Rs. 29,400
- O Rs. 29,300
- O Rs. 29,100

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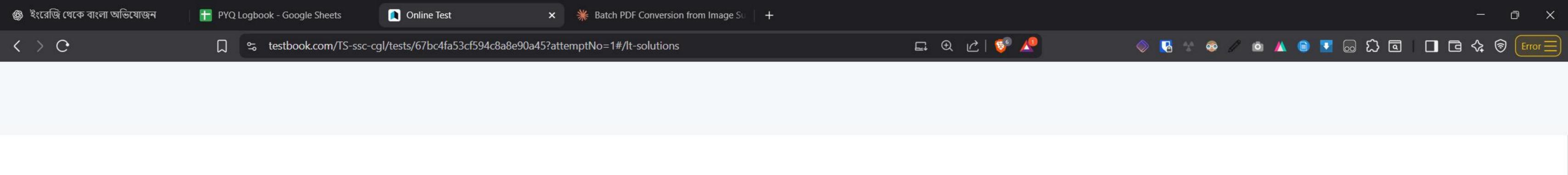


Find the amount (integral value only) if a sum of ₹6,500 is being borrowed at 10% interest per annum for 2 years if interest is compounded half-yearly

- ₹8,150
- ₹7,900
- ₹7,650
- ₹8,250

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The number 1254216 is divisible by which of the following numbers?

- \bigcirc 5
- 0 11
- O 16
- 0 8

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