

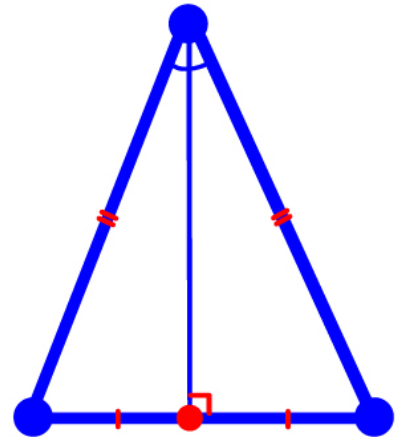
QUESTION 1



Two congruent sides of an isosceles triangle are each 1 centimeter longer than three times the length of the third side, which is the base of the triangle. The perimeter of the triangle is at least 72 centimeters. What is the minimum length of the base?

Select your answer from the drop-down menu.

The minimum length of the base is cm.



QUESTION 3



Aliya is writing a computer program for class. The program has to have more than 60 lines of code, but she already wrote 8 lines of code. She has four days left to finish her computer program. If she writes the same number of lines of code each day, how many lines of code must she write each day?

Enter your answer in the space provided.

Aliya has to write at least



lines of code each day.



QUESTION 5



Tariq is painting a room in an office building. All of the rooms in the building have a wall area to be painted of at least 342 square meters. So far he has painted 210 square meters. If Tariq paints at a rate of 15 square meters every hour, how long might it take him to finish painting the room?

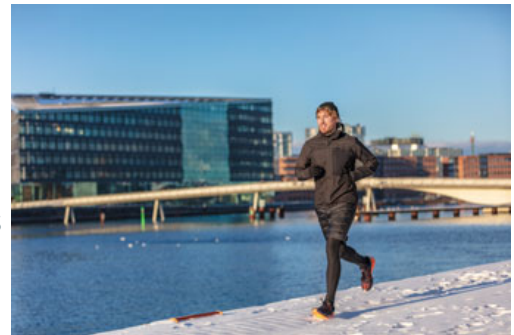


- ☒ It will take Tariq at least 8.8 hours to finish painting. ✓
- ☐ The maximum amount of time it will take Tariq to finish painting is 22.8 hours.
- ☐ Tariq will need at least 22.8 hours to finish painting.
- ☐ Tariq will finish painting in 8.8 hours or less.

QUESTION 7



Jamal is training for a race. This week he has to run at least 36 kilometers. He ran 9 kilometers today. He plans to runs the same number of kilometers each day for the next 5 days. Write and solve an inequality that shows how far Jamal needs to run each day to meet his goal.



Drag and drop the answers into the boxes to correctly complete the sentences.

The inequality is $5x + 9 \geq 36$ ✓

Jamal has to run at least 5.4 ✓ km each day.

at least $3\frac{4}{9}$

$9x + 5 \geq 36$

$9x + 5 \leq 36$

at most 5.4

at most $3\frac{4}{9}$

$5x + 9 \leq 36$

QUESTION 9



Ibrahim is going to an amusement park. It costs AED 130 to enter the park and AED 4 for each ride. Ibrahim has AED 250. What is the maximum number of rides he can go on?



☐

44



4

more than 5 ✓ ▼

profit.

QUESTION 15



Omar and Yusuf are raising money for charity through selling books and from their own pocket. Omar donated AED 30 from his own pocket money and charges AED 12 for each book he sells. Yusuf donated AED 44 from his own pocket money and charges 10 AED for each book he sells.

Assume they each sell the same number of books to determine which statement is true.

Drag and drop your answer to correctly complete the sentence.

If Omar and Yusuf each sell less than 7 books, then Yusuf earns more for charity ✓.

at least 7 books, then Yusuf earns more for charity

at most 7 books, then Omar earns more for charity

more than 7 books, then Yusuf earns more for charity

QUESTION 17



Fatima and Layla are sales clerks at different clothing stores. Fatima earns a weekly salary of AED 800 and 5% on her total weekly sales. Layla earns a weekly salary of AED 950 and 3% on her total weekly sales. If they sell the same amount, how much do they each have to sell for Fatima to earn more than Layla?

Select your answer from the drop-down menu.

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Fatima and Layla each have to sell

more than AED 7,500 ✓ ▼

 for Fatima to earn more than Layla.

QUESTION 19



Bekhit is trying to choose between cell phone plans from two different companies. Plan A costs AED 50 every month with an extra charge of AED 2 for every text sent. Plan B costs AED 110 every month with an extra charge of AED 0.5 for every text sent. How many texts would Bekhit have to send every month to make Plan B less expensive than Plan A? Enter your answer in the space provided. Plan B is less expensive than Plan A if Bekhit sends at least

41 ✓

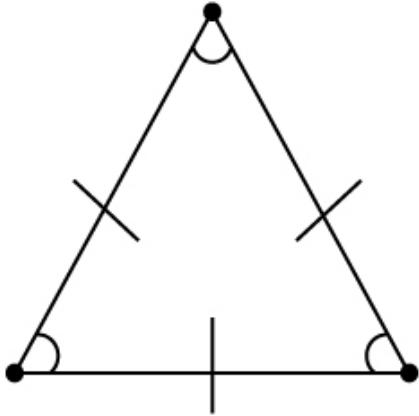
 texts a month.

QUESTION 21



The side length of an equilateral triangle is four more than a number. The perimeter of the triangle is greater than 27 centimeters. Which inequality represents the possible values of this number, n , in centimeters?

Select your answer from the drop-down menu. The inequality that represents the possible values of n



is $3(n + 4) > 27$ ✓ ▼

QUESTION 23

Aaref needs at least AED 300 for a new bike. He currently has AED 110 saved. Which inequality shows how much more money Aaref needs to earn?

Select your answer from the drop-down menu.

$x + 110 \geq 300$ ✓ ▼



QUESTION 25

Which inequality represents this verbal description?

The quotient of twice a number and five is at most negative seven.

Drag and drop your answer into the box.

The inequality is $\frac{2n}{5} \leq -7$ ✓

$$2n + 5 \geq -7$$

$$2n + 5 \leq -7$$

$$\frac{2n}{5} \geq -7$$

QUESTION 27



Which inequality represents the statement?

The product of nine and a number is at least twelve.

☐ $9x < 12$

☐ $9x > 12$

☐ $9x \leq 12$

☒ $9x \geq 12$



QUESTION 29



Amani is making a stew for her restaurant. She adds 10 grams of spices and stirs. She is going to add more spices, but the stew can have at most 28 grams of spices. Which inequality represents how much more spices, in grams, that Amani can add to her stew?

Drag and drop your answer into the box.

The inequality is $s + 10 \leq 28$



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<https://t.me/+CbbW8n6Up6U5OGE8>

$$s + 10 \geq 28$$

$$s + 28 \leq 10$$

$$s - 10 \geq 28$$