انسخ الرابط وحطه ف قوقل https://t.me/+CbbW8n6Up6U5OGE8

View hints View feedback

Play All

QUESTION 2

The average price Aisha charges for a piece of jewelry she creates is AED 74. The price of all of her jewelry varies by no more than AED 36 from the average prices. What is the range Aisha charges for a piece of her jewelry?

Enter your answers in increasing order in the spaces provided.

The range Aisha charges for a piece of her jewelry is AED

38 ✓ to AED 110 ✓.

QUESTION 4

Samir adds 650 grams of diced mangoes to the salsa he serves at his restaurant. The scale he uses to measure the mangoes is accurate within 0.49 grams. What is the range of the weight of mangoes Samir adds to his salsa?

- 649.49 grams to 650.49 grams

انسخ الرابط وحطه ف قوقل https://t.me/+CbbW8n6Up6U5OGE8

649 grams to 650 grams

650 grams to 650.49 grams

649.51 grams to 650.49 grams ✓

QUESTION 6

A hat company makes an average of 300,000 hats per month. Every month, the total number of hats manufactured is no more than 42 from the average. What is the possible number of hats that the company makes in a month?

Drag and drop your answers in increasing order to correctly complete the sentence.

The company makes

299,958 ✓ to

300,042 ✓ hats per month.

300,012 | 300,000 | 299,988 | 42

انسخ الرابط وحطه ف قوقل https://t.me/+CbbW8n6Up6U5OGE8

QUESTION 8

Muhammad prices a shirt at a 40% increase from its cost. Each shirt costs Muhammad AED 35. He needs to earn a profit of AED 364 to AED 672 this week from the sales of these shirts. How many shirts does Muhammad need to sell this week in order to earn his profit goal?

Select your answers from the drop-down menus.

This week Muhammad needs to sell [37 ✓] shirts plus or minus [11 ✓].

QUESTION 10

Laila uses 239.5 cm of fabric plus or minus 44.5 cm to make a scarf. She received an order online for 25 scarves. How much fabric will Laila use to make 25 scarves?

Drag and drop your answers into the boxes to correctly complete the sentence.

Laila will use [4,875 ✓] cm to [7,100 ✓] cm of fabric to make 25 scarves.

5,362.5

5,987.5

انسخ الرابط وحطه ف قوقل https://t.me/+CbbW8n6Up6U5OGE8

QUESTION 12

4 x 400 relay is a race where 4 runners take turns running 400 meters, or one lap around the track. Each runner runs his lap in 52.1 seconds, plus or minus at most 1.8 seconds. Write and solve an absolute value inequality to find the fastest and slowest times the entire race was possibly completed.

Enter your answers in the spaces provided.

The team's time was 201.2 ✓ seconds to

215.6 ✓ seconds.

QUESTION 14

Salem is a car salesman at a local car dealership. His salary is AED 5,000 per month. He also gets a fee of 25% of the price of each car he sells. If Salem needs to make between AED 6,800 and AED 8,500 this month, what is the total sales of the cars he needs to sell?

Enter your answers in the spaces provided.

Salem needs his total sales of cars to be between AED 7,200 ✓ and AED

14,000 ✓ this month to meet his goal.

انسخ الرابط وحطه ف قوقل https://t.me/+CbbW8n6Up6U5OGE8

QUESTION 16

Fatima creates video games by writing 397 lines of code on average. Each of Fatima's video games has at most 143 lines of code more or less than the average. What is the range of the number of lines of code in one of Fatima's video games?

Select your answer from the drop-down menu.

The range of the number of lines of code is 254 to 540 .

QUESTION 18

A machine at a lumber mill is designed to cut boards that are 4.5 meters long. The machine cuts these boards within 0.06 meters of the set length. What is the range of the length of the boards cut? Enter your answers in the spaces provided in increasing order.

The length of the boards ranges from 4.44 to 4.56 meters.

QUESTION 20

Khalil's soccer team scores a minimum of 2 goals and a maximum of 8 goals each game. If there are 18 games in a season, which statement is true?

انسخ الرابط وحطه ف قوقل https://t.me/+CbbW8n6Up6U5OGE8

- ○ On average, Khalil's team scores 72 goals in a season.
- ○ Khalil's team will score a minimum of 2 goals for the season.
- ○ Khalil's team scores between 72 and 108 goals a season.
- ◉ The average number of goals Khalil's team scores in a season is 90 plus or minus 54. ✓

QUESTION 22

Batul runs 36 km per week on average. Her weekly totals vary from the average by at most 9.4 km. Write an inequality to show how far, in km, Batul might run per week. Let k be the number of kilometers she runs in a week.

Enter your answers in the spaces provided.

The inequality is

$|k -$ [36] ✓ $| \leq$ [9.4] ✓ .

انسخ الرابط وحطه ف قوقل https://t.me/+CbbW8n6Up6U5OGE8

QUESTION 24

Imani buys glass beads to make jewelry. On average, a container of glass beads contains 500 beads. The manufacturer guarantees that the number of beads in any container is at most 7 beads more or less than the average. Complete the inequality to represent the possible number of beads,

b

, in any container.

Drag and drop your answers to the boxes.

$|b$

-500 ✓

≤ 7 ✓

≥ 7 $+500$ $+7$ ≥ 500 -7 ≤ 500

https://t.me/+CbbW8n6Up6U5OGE8 انسخ الرابط وحطه ف قوقل

QUESTION 26

The label on a liter of a certain brand of paint states that a liter of paint covers an average of 14 square meters. A painter has found that a liter of this paint can cover as little as 12.5 square meters and as much as 15.5 square meters. What inequality shows how many square meters a liter of paint might cover?

Select your answers from the drop-down menus.

$|x -$

14 ✓

$|\leq$

1.5 ✓

QUESTION 28

The average number of pages in each book of a mystery series is 260. The author of this series keeps the number of pages within 12 of the average. Write an inequality that shows the number of pages,

p

, that a book in this mystery series might have.
Enter your answers in the spaces provided.

$|p -$

260 ✓

$\leq$

12 ✓

انسخ الرابط وحطه ف قوقل https://t.me/+CbbW8n6Up6U5OGE8

QUESTION 30

Alyazia wants to buy a new computer. She discovers that the average price for the computer she wants is AED 2,340. Depending on which upgrades it has, the computer may cost AED 800 more or less than this. Which inequality shows the amount that Alyazia may pay for the computer?

- $|a - 800| \leq 2340$
- ◉ $|a - 2340| \leq 800$ ✓
- $|a - 800| \geq 2340$
- $|a - 2340| \geq 800$

QUESTION 32

Solve

$-2|8 - 6x| + 6 > 18$

انسخ الرابط وحطه ف قوقل https://t.me/+CbbW8n6Up6U5OGE8

.

Drag and drop the answer into the box.

The solution to this inequality is $\varnothing$ ✓.

$(-\infty, \infty)$ $\left(-\frac{7}{3}, \frac{1}{3}\right)$ $\left(-\infty, \frac{1}{3}\right) \cup \left(\frac{7}{3}, \infty\right)$

QUESTION 34

Solve

$|7t - 14| < 35$

.

Complete the solution to this absolute value inequality.

Enter your answers in the spaces provided.

$-35 < 7t - 14 < 35$

-35 [+14 ✓]

$< 7t - 14 + 14$

< 35 [+14 ✓]

[-21 ✓]

$< 7t <$ [49 ✓]

انسخ الرابط وحطه ف قوقل https://t.me/+CbbW8n6Up6U5OGE8

-3 ✓

$< t <$

7 ✓

QUESTION 36

Write an absolute value inequality for this graph.

$|x| \leq$

8 ✓

QUESTION 38

Solve the absolute value inequality

$7|4x - 3| + 18 < 53$

. Express the solution set in set-builder notation.

Enter your answers in the spaces provided.

$\{x|$

-0.5 ✓

$< x <$

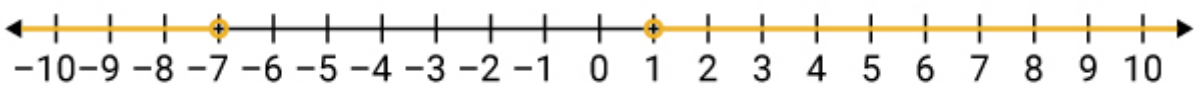
انسخ الرابط وحطه ف قوقل https://t.me/+CbbW8n6Up6U5OGE8

2 ✓

}

QUESTION 39

Which inequality has the solution shown in the graph?



- ○ $|5x - 15| > 20$
- ◉ $|5x + 15| > 20$ ✓
- ○ $|5x + 20| > 15$
- ○ $|5x - 20| > 15$

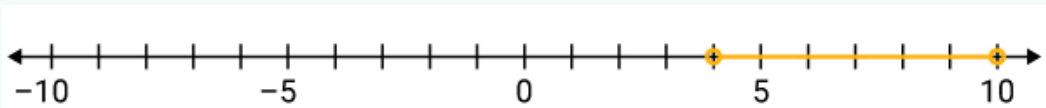
QUESTION 41

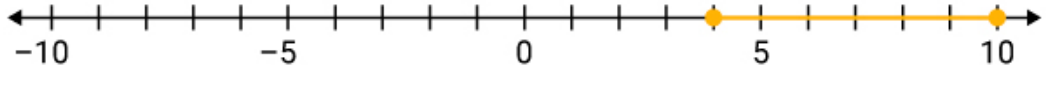
Solve this absolute value inequality.

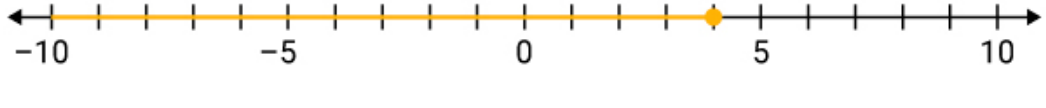
$|x - 7| < 3$

Which graph shows the solution?

انسخ الرابط وحطه ف قوقل https://t.me/+CbbW8n6Up6U5OGE8



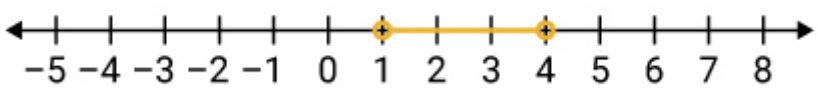




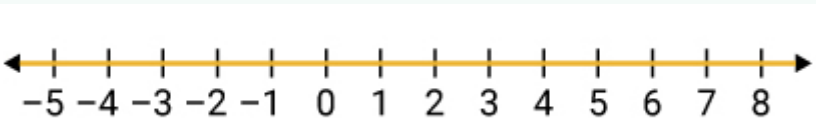
QUESTION 43

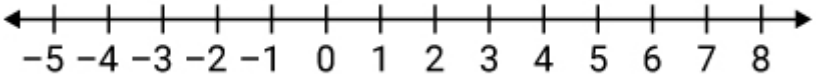
Which graph shows the solution to this inequality?

$-7|2x-5|-12<9$



انسخ الرابط وحطه ف قوقل https://t.me/+CbbW8n6Up6U5OGE8





QUESTION 45

What is the solution to this inequality?

$|8x - 24| < -16$

Select your answer from the drop-down menu.

The solution set is ∅ .

QUESTION 47

What is the solution to this inequality?

$5|9 - 2x| + 1 \leq 16$

Select your answer from the drop-down menu.

انسخ الرابط وحطه ف قوقل https://t.me/+CbbW8n6Up6U5OGE8

The solution is [3,6] .

QUESTION 49

What is the solution to this absolute value inequality?

$10|-4x+6|-16 \geq 4$

Select your answer from the drop-down menu.

$(-\infty,1] \cup [2,\infty)$

QUESTION 51

Solve this inequality. Express the solution in interval notation.

$|6d+12| \leq 48$

Drag and drop your answers into the boxes.

[

-10

,

6

]

انسخ الرابط وحطه ف قوقل https://t.me/+CbbW8n6Up6U5OGE8

-20	20	4	-4	10	-6

QUESTION 53

What is the solution to this inequality?

$|3b + 18| \geq 27$

Select your answer from the drop-down menu.

The solution is $\{b | b \leq -15 \text{ or } b \geq 3\}$ ✓ .

QUESTION 55

Determine the solution for each absolute value inequality.

Drag and drop the correct solutions into the boxes.

Absolute Value Inequality	Solution
$\lvert x - 2 \rvert < 4$	$(-2, 6)$
$\lvert x - 2 \rvert < -4$	$\varnothing$
$\lvert x - 2 \rvert > -4$	$(-\infty, \infty)$

انسخ الرابط وحطه ف قوقل https://t.me/+CbbW8n6Up6U5OGE8

$\lvert x-2\rvert > 4$	$(-\infty,-2)\cup(6,$

$(-6,\ 2)$

$(-\infty,-6)\cup(2,\infty)$

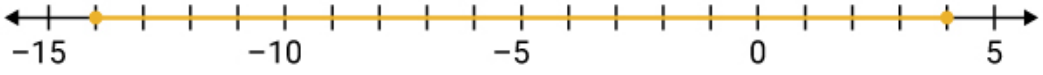
QUESTION 57

Solve

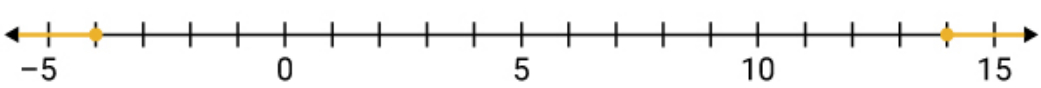
$\lvert q+5\rvert \geq 9$

.

Which option shows the solution to this inequality?

- [ ] $\{q \mid -14 \leq q \leq 4\}$
- [x] $\{q \mid q \leq -14 \text{ or } q \geq 4\}$
- [ ] 

- [ ] $(-\infty,\ -4]\ \cup\ [14,\ \infty)$



$(-\infty, -14] \cup [4, \infty)$

QUESTION 59

What absolute value inequality does this graph show?

Select your answer from the drop-down menu.

The absolute value inequality is

$|$

$|$

$x - 6$ ✓

$| > 2$

.

https://t.me/+CbbW8n6Up6U5OGE8 انسخ الرابط وحطه ف قوقل