

تم تحميل هذا الملف من موقع المناهج الإماراتية



الملف حل أسئلة الاختبار التجريبي نخبة

موقع المناهج ⇨ المناهج الإماراتية ⇨ الصف السادس ⇨ رياضيات ⇨ الفصل الثالث

روابط مواقع التواصل الاجتماعي بحسب الصف السادس



روابط مواد الصف السادس على تلغرام

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المزيد من الملفات بحسب الصف السادس والمادة رياضيات في الفصل الثالث

[حل أسئلة وفق الهيكل الوزاري نخبة](#)

1

[أسئلة الاختبار التجريبي نخبة](#)

2

[حل نموذج تدريبي للاختبار النهائي](#)

3

[نموذج تدريبي للاختبار النهائي](#)

4

[حل أسئلة الكتابي وفق الهيكل الوزاري الجديد](#)

5

**رياضيات 2023**

**الإختبار التجريبي 6 نخبه - 2023**

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Use the graph below to find the area of the shaded parallelogram.

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8 m

7 m h

base

10 m

$$A = bh$$

$$A = 10 \times 7$$

$$= 70$$

a.  $70 \text{ m}^2$

b.  $77 \text{ m}^2$

c.  $54 \text{ m}^2$

d.  $80 \text{ m}^2$



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Use the graph below to find the area of the shaded triangle.



$$A = \frac{1}{2}bh$$

$$A = \frac{1}{2} \times 12 \times 10$$

$$A = 6 \times 10$$

$$= 60$$

جميع الجوابات هنا



- a.  $120 \text{ cm}^2$
- b.  $70 \text{ cm}^2$
- c.  $54 \text{ cm}^2$
- d.  $60 \text{ cm}^2$





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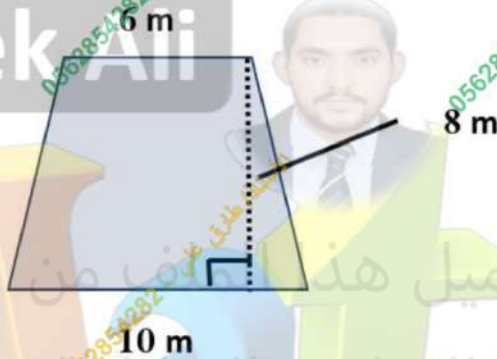


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Use the graph below to find the area of the shaded trapezoid.

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$$A = \frac{1}{2} (b_1 + b_2) h$$

$$= \frac{1}{2} (6 + 10) (8)$$

$$= \frac{1}{2} (16) (8)$$

$$= 8 \times 8$$

$$= 64$$

a. 49 m<sup>2</sup>

b. 80 m<sup>2</sup>

c. 36 m<sup>2</sup>

d. 64 m<sup>2</sup>





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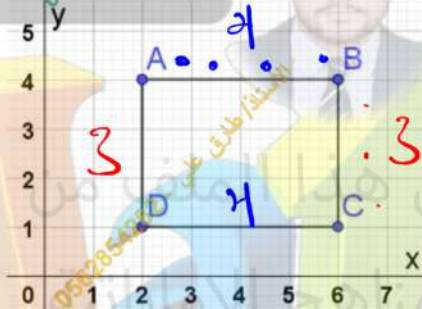
A rectangle vertices are:

A(2, 4), B(6, 4), C(6, 1), D(2, 1) .

Use the coordinates of the rectangle

in the figure below to find perimeter

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$$4 + 4 + 3 + 3$$

$$8 + 6$$

$$14$$

a.  14 units

b.  7 units

c.  18 units

d.  12 units



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## بونس

Finn Fitness shown in the figure below has an entrance to the locker room from both the exercise room and the weight room. What is the total area of the Finn Fitness?



$A_{big} + A_{small} - A_{green}$

$l.w + l.w - l.w$   
 $10 \times 7 + 7 \times 6 - 4 \times 4$

$70 + 42 - 16$

$112 - 16 = 96$

- a.  $112 m^2$
- b.  $96 m^2$
- c.  $100 m^2$
- d.  $103 m^2$



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A rectangular prism sink is  
10 cm long, 5 cm wide, and 3 cm  
deep.

Find the amount of water that can be  
contained in the sink.

a. 180 cm<sup>3</sup>

b. 150 cm<sup>3</sup>

c. 120 cm<sup>3</sup>

d. 190 cm<sup>3</sup>

long = length = 10  
wide = width = 5  
deep = height = 3

$$V = l \cdot w \cdot h$$
$$= 10 \times 5 \times 3$$
$$= 10 \times 15$$
$$= 150$$







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جميع الجوابات هنا



Find the surface area of the rectangular prism shown in the figure below.



$$SA = 2(lw + lh + wh)$$

$$= 2(6 \times 4 + 6 \times 8 + 4 \times 8)$$

$$= 2(24 + 48 + 32)$$

$$= 2(104)$$

$$= 208$$

a. 192 cm<sup>2</sup>

b. 208 cm<sup>2</sup>

c. 188 cm<sup>2</sup>

d. 168 cm<sup>2</sup>



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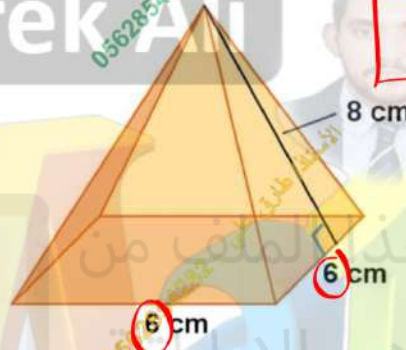
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Find the total surface area of the square pyramid shown in the figure below.

$$SA = l \cdot w + 2bh$$

$$l = w = b$$



$$SA = 6 \times 6 + 2(6)(8)$$

$$= 36 + 96$$

$$132$$

a.  $120 \text{ cm}^2$

b.  $96 \text{ cm}^2$

c.  $144 \text{ cm}^2$

d.  $132 \text{ cm}^2$



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The following table shows the number of CDs a group of friends bought. Find the **mean** number of CDs the group bought.

Number of CDs Purchased				
4	6	5	2	3

$$\text{Mean} = \frac{\text{Sum of All numbers}}{5}$$

$$\text{Mean} = \frac{4+6+5+2+3}{5}$$

$$\text{Mean} = \frac{20}{5} = 4$$

4



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The scores of 5 students in the final exam are: 85, 70, 80, 50, 90, find the **median** of the data.

a. 85

b. 70

c. 80

d. 82.5

\* order  
~~50~~, ~~70~~, 80, ~~85~~, ~~90~~

Median = 80

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The heights of 6 students in centimeters are:

135, 124, 111, 160, 150, 160,

find the mode of the data.

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More repeating

135

b. 140

c. 160

d. 147.5

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$$IQR = Q_3 - Q_1$$

Find the interquartile range of the data: 35, 40, 45, 55, 60, 66, 70.

\* order:

a. 26    35    40    45    55    60    66    70

b. 55

c. 35

d. 53

$Q_1$

Median

$Q_3$

$$IQR = 66 - 40 = 26$$



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The scores of 4 students are:

13, 12, 15, 16. Find the **mean absolute deviation** of the data.

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a. 14

$$\text{Mean} = \frac{\text{Sum of Numbers}}{4} = \frac{13 + 12 + 15 + 16}{4}$$

b. 1.5

$$= \frac{56}{4} = 14$$

c. 2.5

② Subtract  $|14 - 13| = 1$

$|14 - 12| = 2$ ,  $|14 - 15| = 1$

d. 3.5

$|14 - 16| = 2$

③ Mean again  $\frac{1 + 2 + 1 + 2}{4}$

$$= \frac{6}{4} = \frac{2 \times 3}{2 \times 2} = \frac{3}{2}$$

$$= |1.5|$$



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The following table shows the number of hours that a group of students studied for the mathematics test. Which measure of center best represents the data?

Number of Hours							
4	5	4	2	3	4	1	4

- a. The mode
- b. The median
- c. The mean
- d. The range



Not Symmetric  
Median For Center.





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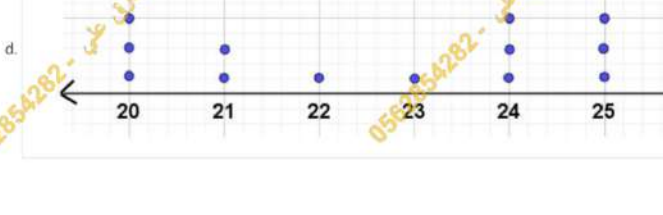
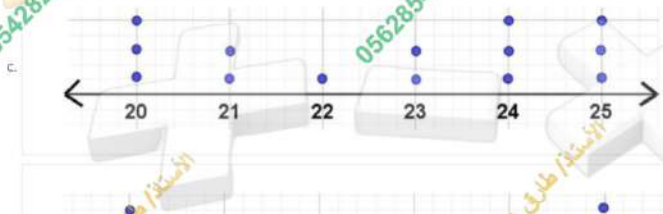
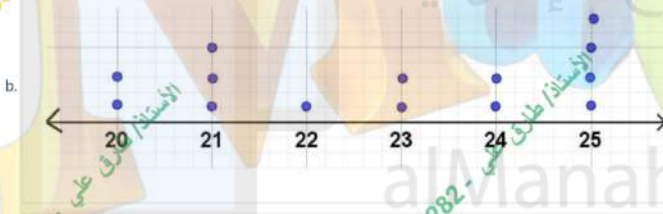
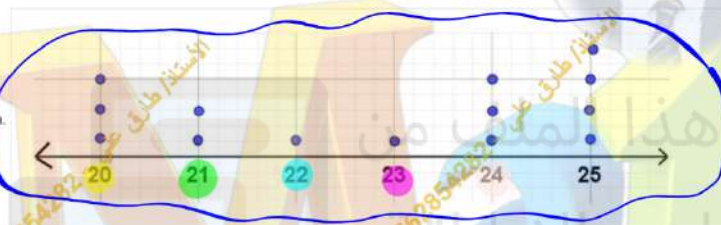


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The following table represents the weights of 14 kids.  
Draw a line plot of the data.

The weight						
25	24	25	21	20	23	20
24	24	25	25	20	23	21





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The following line plot of data shows the weights of a group of students. Find the median of the data.

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The weight

- a. 23.5
- b. 22
- c. 23
- d. 22.5

$$\text{Median} = \frac{23 + 23}{2} = 23$$



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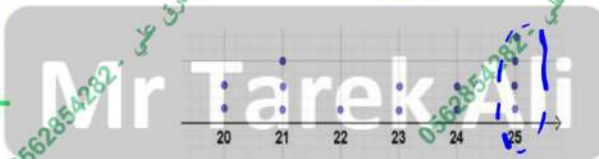
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The following line plot of data shows the ages of a group of university students. Find the mode of the data.



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- a. 25
- b. 22
- c. 21
- d. 23

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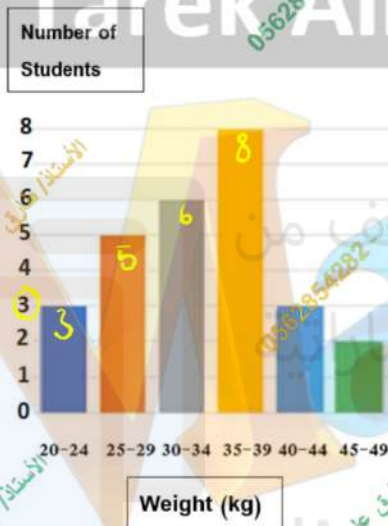
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The histogram shown in the figure below shows the weights of a group of students in kilograms. Find how many students their weights were less than or equal 39 kilograms.



عدد الطلاب  
 التوزيع  
 أو أقل  
 39

39  
 39  
 78

$8 + 6 + 5 + 3$

$= 22$

- a. 5
- b. 13
- c. 22
- d. 14





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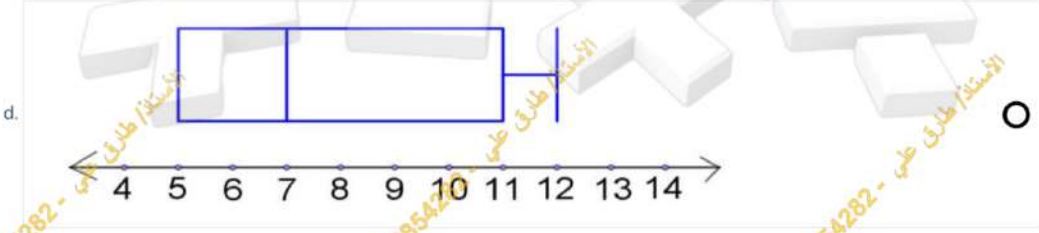
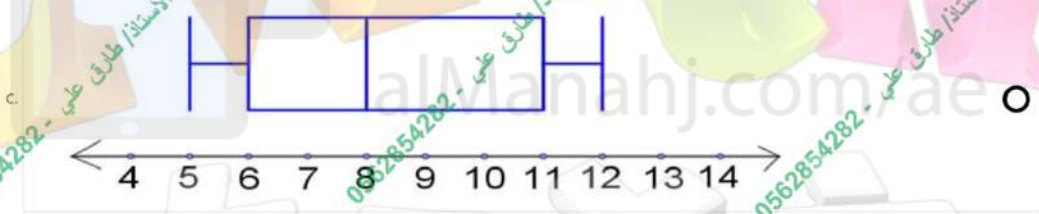
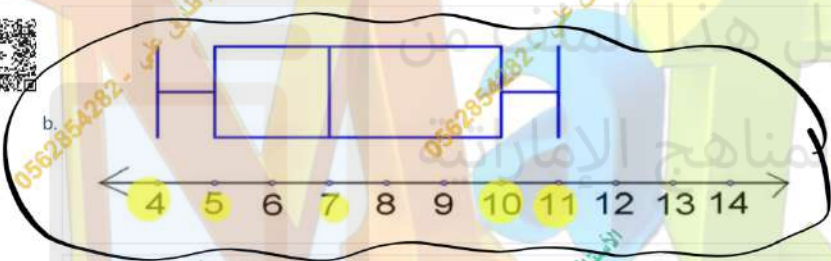
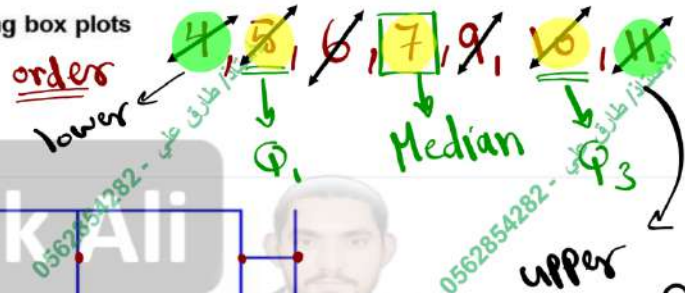
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Which of the following box plots represents the data:  
6, 9, 4, 7, 11, 10, 5.





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Find the **range** of the values represented in the figure below.

$Range = upper - lower$

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$Range = 12 - 5 = 7$



- a. 5
- b. 8
- c. 6
- d. 7

- 
- 
- 
-



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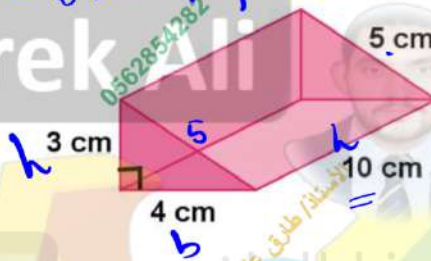


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Find the surface area of the triangular prism shown in the figure below.

$$SA = bh + Ph$$

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$$(4 \times 3) + (3 + 4 + 5)(10)$$

$$12 + 12(10)$$

$$12 + 120$$

$$132$$

a.  $120 \text{ cm}^2$

b.  $108 \text{ cm}^2$

c.  $60 \text{ cm}^2$

d.  $132 \text{ cm}^2$



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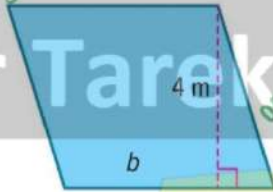
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Find the missing dimension of the parallelogram.



$A = 28 \text{ m}^2$

$$A = bh$$

$$28 = 4b$$

$$b = \frac{28}{4}$$

$$b = 7$$

A	112
B	32
C	7 ✓
D	6

Determine whether question is **Not a statistical question**.

A ✓	How many continents are there?
B	How many continents has the <u>average</u> student visited?
C	How many sporting events did the <u>average</u> student attend last year?
D	How many roller coasters are <u>typically</u> found in an amusement park?





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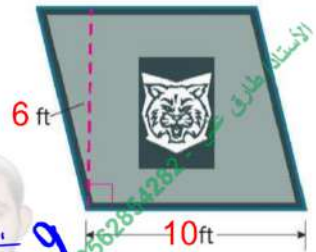
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Show your work

Tara and Veronica are making a parallelogram-shaped banner for a football game. They will paint the entire banner except for a rectangular section where a photo of the school's mascot will be placed. The photo of the mascot has an area of 6 square feet. If a 16-ounce bottle of primer covers 9 square feet, how many bottles of paint will they need?



① Area = 6      ② divided ÷ 9

①  $bh - 6 = 10 \times 6 - 6 = 54 \text{ ft}^2$

②  $54 \div 9 = 6$

6 bottles



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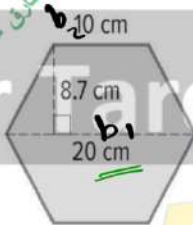


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Show your work

7. Open Response A tapestry is shaped like a regular hexagon. (Lesson 4)



A. Explain how you can decompose the hexagon in order to find its area.

B. Find the area of the tapestry.

Decomposing into 2 Trapezoid

$$\text{Area} = 2 \left( \frac{1}{2} \right) (b_1 + b_2) h$$

$$= (10 + 20) (8.7)$$

$$= 30 \times 8.7$$

$$= 261.0 \approx \boxed{261 \text{ cm}^2}$$



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Show your work



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**Reason Abstractly** Find the surface area and volume of each rectangular prism-shaped block. Which block has the greater surface area? Does the same block have a greater volume? Write an argument that can be used to defend your solution.

Block A



Block B



\* Block A

$$SA = 2(lw + lh + wh)$$

$$= 2(4 \times 5 + 3 \times 5 + 3 \times 4)$$

$$= 2(20 + 15 + 12) = 2(47) = 94$$

$$SA = 94 \text{ in}^2$$

$$* V = l \cdot w \cdot h = 4 \times 5 \times 3 = 60 \text{ in}^3$$

\* Block B :  $SA = 2(2 \times 5 + 2 \times 6 + 5 \times 6)$

$$SA = 2(10 + 12 + 30) = 2(52) = 104 \text{ in}^2$$

$$* V = l \cdot w \cdot h = 2 \times 5 \times 6 = 60 \text{ in}^3$$

⇒ Block B greater Surface Area than Block A. Volume Same