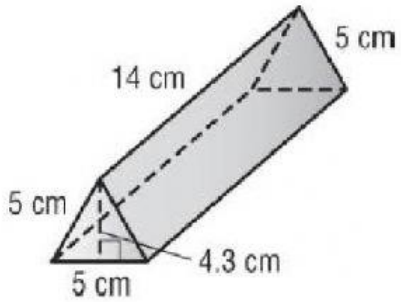
TREM 3 REVISION : WEEK 5 TO WEEK 10

GRADE 6 ASP SUB: MATH

LESSON 10.4: SURFACE AREA OF TRIANGULAR PRISMS

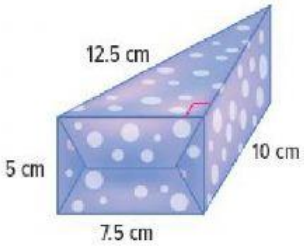
1. A box of snack crackers in the shape of a Triangular prism.What is the surface area of the box?



A	**231.50 cm^2**
B	**235 cm^2**
C	**230 cm^2**

2. A decorative gift box is in the shape of Triangular prism as shown. What is the Surface area of this box?

Answer:



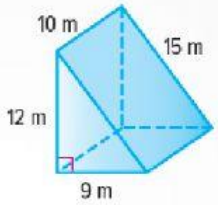
3. What is the least amount of fabric needed to make the tent?

Answer:

A	**$140ft^2$**
B	**$129ft^2$**
C	**$150ft^2$**

4. Determine if each statement is true or false

A triangular prism has the dimensions shown.
Determine if each statement is true or false.



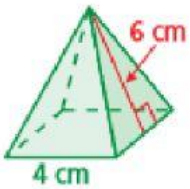
a. The combined areas of the bases is 54 m^2. ☐ True ☐ False

b. The areas of the rectangular faces are 90 square meters, 120 square meters and 180 square meters. ☐ True ☐ False

c. The surface area of the prism is 468 square meters. ☐ True ☐ False

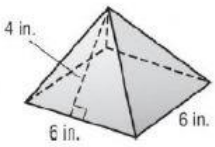
LESSON 10.5: SURFACE AREA OF PYRAMIDS

5. Find the surface area of this Square Pyramid.



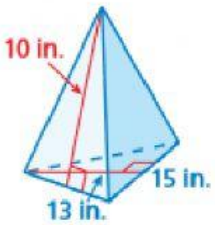
A	$60cm^2$
B	$61cm^2$
C	$64cm^2$

6. Mr. Statsko has a paper weight on his desk in the shape of a Square Pyramid. The dimensions of the Pyramid are shown. What is the surface area of the paper weight?



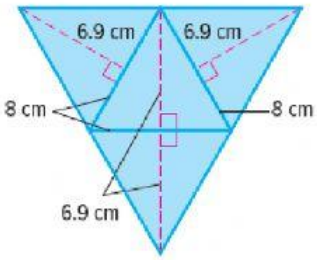
A	$84inch^2$
B	$82inch^2$
C	$80inch^2$

7. Find the surface area of this Triangular Pyramid.



A	$250\ inch^2$
B	$292.50inch^2$
C	$240inch^2$

8. A pyramid puzzle has all faces that are equilateral triangles. Each triangle has side lengths of 8 centimeters. The slant height is 6.9 centimeters. Find the surface area of the puzzle.



A	$110.4cm^2$
B	$120cm^2$
C	$130.4cm^2$

LESSON 11.1 : MEAN

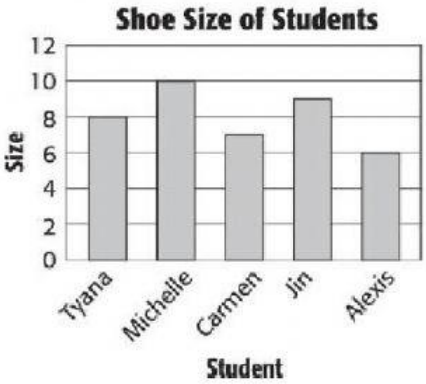
9. Calculate the mean for each set of data.

1.

Show your work here and choose the correct option:

A	10
B	11
C	12

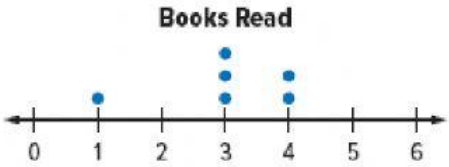
2.



Show your work here and choose the correct option:

A	8
B	9
C	10

10. The dot plot shows the number of books Amal read each week of a reading challenge. Find the mean number of books she read.



A	4
B	5
C	3

11. Find the missing value of this data set.

The table shows the money raised by each type of booth at a craft sale. The mean amount raised per booth was AED 59. How much money was raised by the T-shirt booth? Explain how you found your answer.

Solve here:

Northside Craft Sale	
Booth	**Money Raised (AED)**
Artwork	58
Candles	47
Holiday decorations	54
Jewelry	70
Picture frames	45
T-shirts	?

A	80
B	70
C	90

12.The mean of a set of data is 42. Find the missing number in the data set.

(40 , 45 , 48 , ? , 47)

A	30
B	31
C	32

LESSON 11.2 :MEDIAN AND MODE

13. What is the median score of achieved by a student who recorded the following scores on 10 Math quizzes ?

68 , 55, 70 , 62 , 71 , 58 , 81 , 82 , 63 , 79

A	68
B	71
C	69

14. Find the mode of the following data set.

10 ,11 ,11, 12, 11, 12 ,13, 15 , 16 , 12 , 15

A	11
B	12
C	11 and 12 both

15. Describe the daily high temperatures using the measures of center.

Daily High Temperature (°C)							
42		43		37		35	
	41		34		41		

Answer:

Mean :

Median:

Mode:

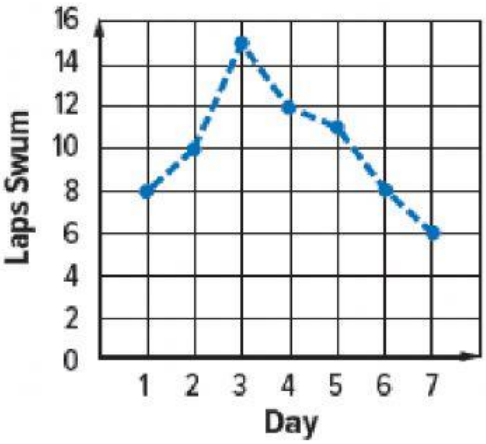
16. Find and compare Median and Mode of the data set.

Write the data set :

Median :

Mode :

Compare:



LESSON 11.3 :MEASURES OF VARIATION

17. Match the following with the correct option:

A	B
The average of a set of data	Mode
The difference of the greatest value and lowest value of a data set	Median
The value that occurs most frequently in a data set	IQR
The middle number of the data set in which the numbers are written in numerical order	Mean
Q3 – Q1	Range

18. Find the Range, Median , 1st quartile , 2nd quartile and IQR of this data set.

Number of Boxes of Popcorn Sold						
52	72	96	21	58	40	75

Range :

Median :

Q1:

Q3:

IQR:

19. Write the correct answer:

The table shows the number of golf courses in various US states.

Number of Golf Courses in US States			
California	1,117	New York	954
Florida	1,465	North Carolina	650
Georgia	513	Ohio	893
Iowa	437	South Carolina	456
Michigan	1,038	Texas	1,018

a. Find the range of the data. _____

b. Find the median and the first and third quartiles.

_____

c. Find the interquartile range. _____

d. Identify any outliers in the data. _____

LESSON 11.4 :MEAN ABSOLUTE DEVIATION

20. Calculate the Mean absolute deviation of the data set.

110 , 114 , 104 , 108 , 106

Data	Mean	Difference	Positive Value
		Sum:	
		Count:	
		Mean Absolute Deviation:	

The average of the "Positive Value" column

21. Find the Mean absolute deviation of the data set. Round off to nearest hundredth if necessary.

Calories per Serving			
47	35	46	56
40	42	52	30

Data	Mean	Difference	Positive Value
		Sum:	
		Count:	
		Mean Absolute Deviation:	

The average of the "Positive Value" column

LESSON 11.5: Appropriate Measures

22. Find the measure of center **(mean , mode or median)**that best represents the data. Justify your selection.

a) points on quizzes: 12 , 6 , 9 , 0 , 14 , 5 ,11 , 7

Best measure of center:
Justification:

b) minutes spent practicing piano: 40 , 25 , 60 , 30 , 35 , 40

Best measure of center:
Justification:

23. Answer the following:

The prices of some new athletic shoes are shown in the table.

Prices of Athletic Shoes (AED)		
51.95	47.50	46.50
48.50	52.95	78.95
	39.95	

b. Identify the outlier in the data set.

c. Determine how the outlier affects the mean, median, and mode of the data. _____

_____

_____

d. Tell which measure of center best describes the data with and without the outlier. _____

24. Identify the outlier of the data set.

Month	June	July	Aug.	Sept.	Oct.	Nov.
Rainfall (cm)	6.14	7.19	8.63	8.38	6.47	2.43

A	2.43
B	6.14
C	6.47

25.The table shows the greatest recorded weights of fish.Select the appropriate measure for this data.

Record Fish Weights	
Fish	Weight (lb)
King Mackerel	90
Red Snapper	46.5
Snook	44
Swordfish	612.75
Tarpon	243
Yellowfin Grouper	34.38

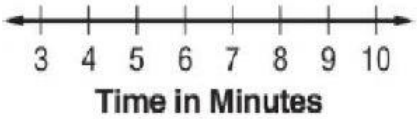
A	Mean
B	Mode
C	Median

LESSON 12.1: LINE PLOTS

26. The Johnson family kept a record of the length of telephone calls they made in one weekend.

Make a Line plot of this data.

8 minutes	6 minutes	4 minutes	10 minutes	4 minutes	8 minutes
7 minutes	8 minutes	8 minutes	7 minutes	9 minutes	8 minutes
3 minutes	9 minutes	7 minutes	8 minutes	4 minutes	6 minutes
9 minutes	8 minutes	7 minutes	9 minutes	7 minutes	



27 . Make a Line plot for the set of data. Find median , mode , range and outlier of the data set.

Length of summer camps, in days:
7, 7, 12, 10, 5, 10, 5, 7, 10, 9, 7, 9, 6, 10, 5, 8, 7, 8

Median :

Mode:

Range :

Outlier:

28.

The table shows the number of days several students attended an exercise class last month. How many students attended the class

less than 15 days? _____

Number of Days			
16	21	18	6
19	15	8	11
16	4	20	22
12	19	21	9

A	4
B	5
C	6