

**Labrador School Board  
Grade 7 Mathematics  
District Assessment  
June 14<sup>th</sup>, 2013**

Name: \_\_\_\_\_

Teacher: \_\_\_\_\_

**Section 2: Calculator Section**

You **are permitted** to use a calculator. You are permitted to use any math manipulatives that your teacher has used with you this year.

Questions 16-25 (Selected Response): These are worth 1 mark each. Even though you have to choose an answer, you may have to work things out on scrap paper. **Record your choices on the same sheet you used for your Section 1 responses.**

Questions 3-8 (Constructed Response): Answers are to be done in the spaces provided. Students are reminded to show **all** steps/calculations since credit may be given for incomplete or partially correct solutions. **Numerical answers without workings/explanation will not merit full credit.**

This is not a timed-test. You are allowed enough time to complete all items.

**Section 2 – Selected Response: Circle your responses on the answer sheet provided.**

16. This table shows the plus/minus scores for Jarome Iginla in four of his seasons with the Calgary Flames.

Season	Plus/Minus Score
2000-2001	-2
2001-2002	+27
2002-2003	-10
2003-2004	+21

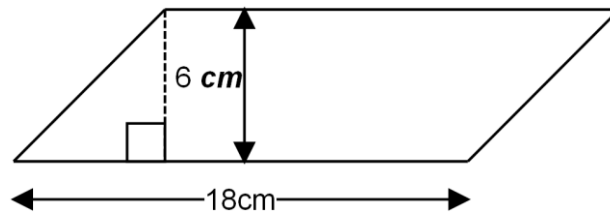
What is the total of Jarome's plus/minus scores over these four seasons?

- A) -60  
B) -12  
C) +36  
D) +38
17. A 128 cm piece of ribbon is to be cut into 12.5 cm long strips. How many strips can be cut?
- A) 10  
B) 11  
C) 140  
D) 1600
18. 500 students were surveyed about their online gaming preference. How many students preferred 'Action' games?

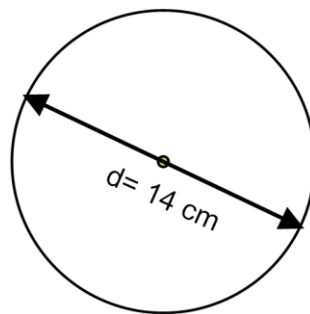


- A) 225  
B) 275  
C) 360  
D) 455

19. What is the area of this parallelogram, in  $\text{cm}^2$  ?



- A) 3  
B) 24  
C) 54  
D) 108
20. What is the area of this circle, in  $\text{cm}^2$ , rounded to one decimal place?



*Use  $\pi = 3.14$*

- A) 44.0  
B) 69.0  
C) 153.9  
D) 615.4
21. What is the mode of this data set?

(12,10,8,9,10,15,13)

- A) 7  
B) 10  
C) 11  
D) 15

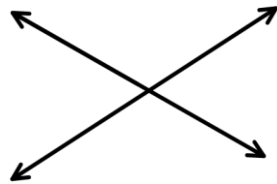
22. What is the range of this data set?

(12,12,5,7,10,14,20)

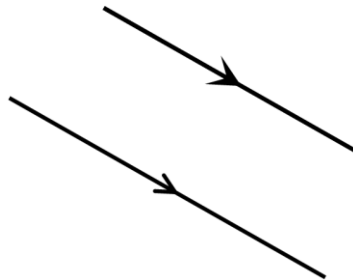
- A) 8
- B) 11
- C) 12
- D) 15

23. Which pair of lines is parallel?

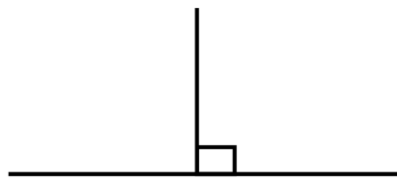
A)



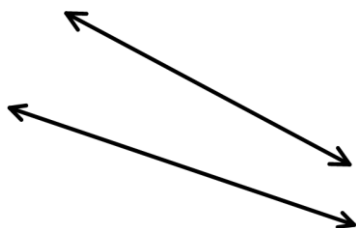
B)



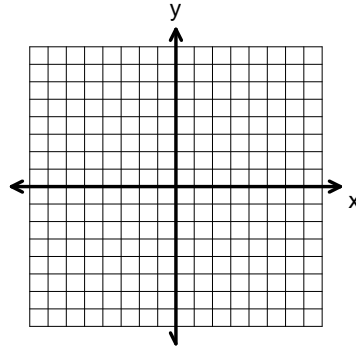
C)



D)



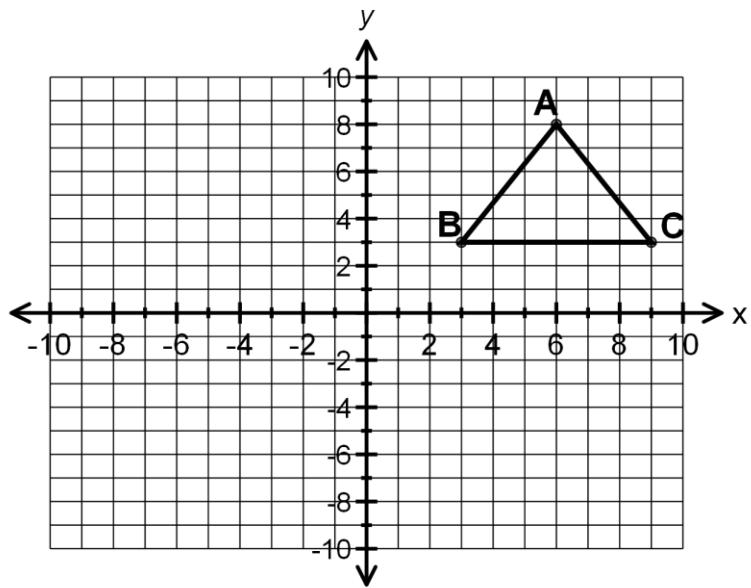
24. In which quadrant is  $(-3, -2)$ ?



- A) Quadrant 1
- B) Quadrant 2
- C) Quadrant 3
- D) Quadrant 4

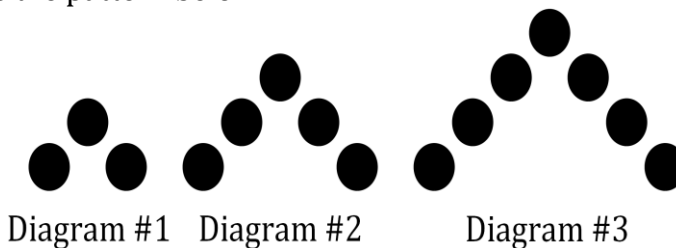
25. If  $\triangle ABC$  is reflected in the y axis, what will be the coordinates of  $C'$ ?

- A)  $(-9, 3)$
- B)  $(-9, -3)$
- C)  $(9, -3)$
- D)  $(9, 3)$



**Section 2 : Constructed Response: Answers are to be done in the spaces provided.**  
Show all necessary workings.

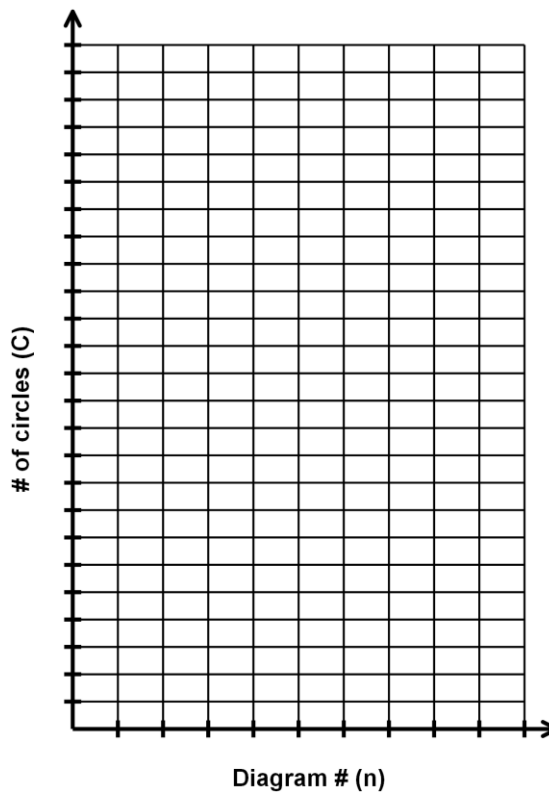
3. Circles are used to create the pattern below:



A) Complete this table. [1 mark]

Diagram # (n)	# of circles (C)
1	
2	
3	
4	
5	
6	

B) Graph the relation on the grid below. [1 mark]



C) Write a relation to show how the number of circles, **C**, is related to the diagram number, **n**. [1 mark]

D) Determine the number of circles in the 10<sup>th</sup> diagram. [1 mark]

4. Mr. D is buying a new iPad to use in his classroom. The regular price is \$420 but it's on sale for 25% off. If the tax rate is 13%, how much will Mr. D pay for the iPad?  
[ 2 marks]

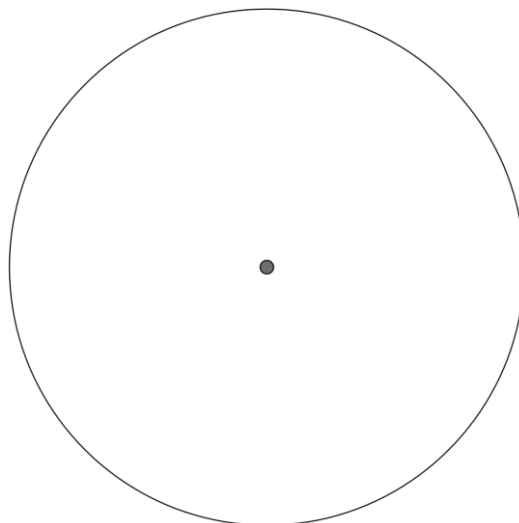
5. Some Gr. 7 students were surveyed to determine their favourite type of movie.

- A) Complete the table below. [2 marks]

Favourite Type of Movie	Number of Students	Fraction of Total	Percent of Students (%)	Central Angle (°)
Action	20	$\frac{20}{50}$		
Comedy	10	$\frac{10}{50}$		
Horror	12	$\frac{12}{50}$		
Romance	8	$\frac{8}{50}$		
<b>Total</b>	50	1	100	360

- B) Use the data to construct and label a circle graph. [2 marks]

Favourite Type of Movie



6. Solve using a method of your choice (show all your work):

A)  $6x = 72$  [1 mark]

B)  $6x + 8 = 32$  [2 marks]

7. *Juan's Cleaners* have developed a new disinfectant to kill germs. Ten tests were performed with the following results:

Percent of germs eliminated: 67%, 99%, 89%, 87%, 99%, 70%, 99%, 69%, 92%, 61%

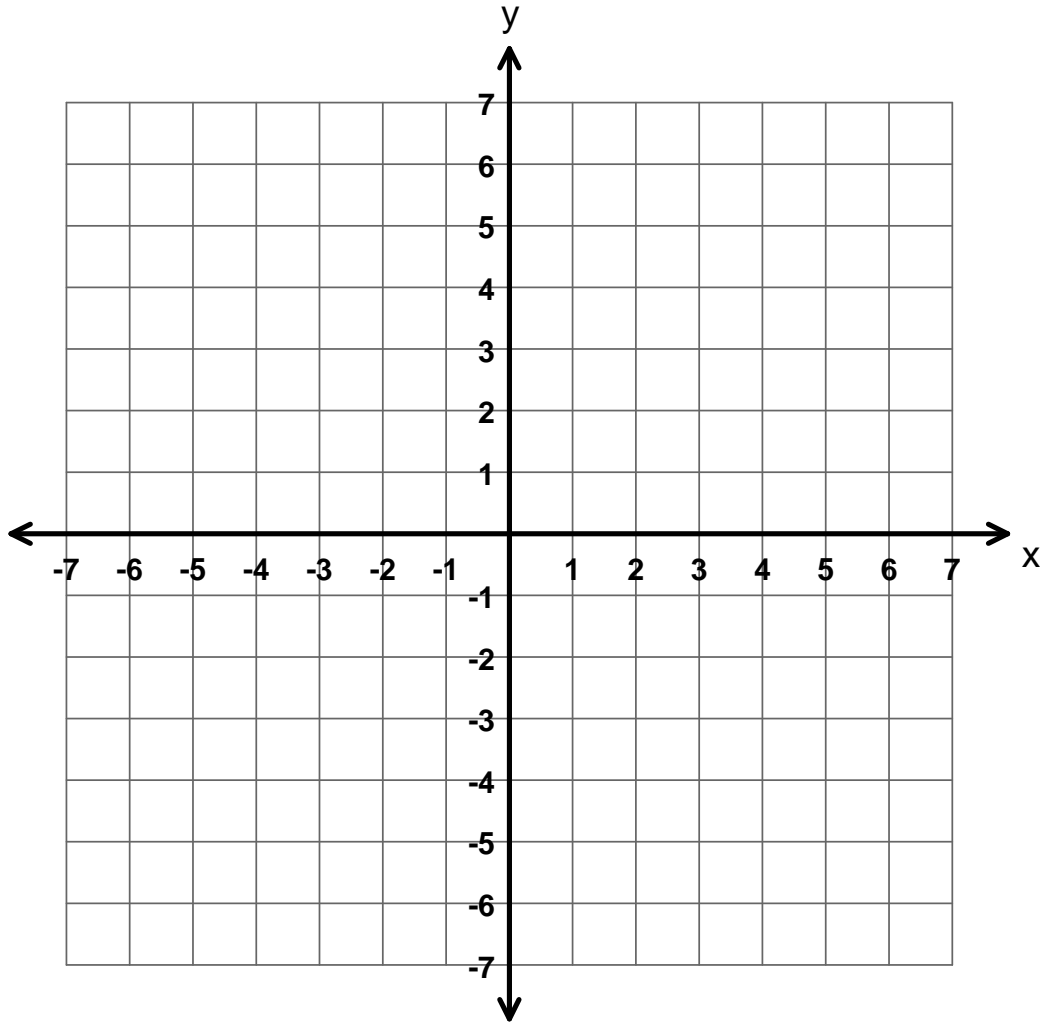
A) Determine the mean and median of this data set. [1.5 marks]

B) If you were the owner of the company, which measure of central tendency (mean, median, or mode) would you use to try and convince people that your product is worth buying? Explain your answer. [1.5 Marks]



8. Plot  $A(2, -3)$ ,  $B(5, -3)$ ,  $C(2, -5)$  and  $D(5, -5)$  on the coordinate grid. Connect the points to form rectangle  $ABCD$ . Rotate  $ABCD$   $90^\circ$  counter clockwise around the origin to form  $A'B'C'D'$ . What are the coordinates of  $A'B'C'D'$ ?

[3 Marks]



# End of Section 2