



## Learning POWER – Back To The Future Education Aust Pty Ltd

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### © Year 7 - Assessment A

This assessment is the first of two assessments based on Year 7 work.  
Please return assessments by: Email, fax or mail (Details above)

Full Name	Current Grade
Date	Phone Number (business hours please)
Parent/guardian's Name	Alternative phone number

**PARENTS:** Please DO NOT help or prompt the student.  
Students are not allowed to use a calculator.

1) Pat has 11 marbles, Jack has eight times as many marbles as Pat.

a) What is the ratio ?

P : J
:

b) What is the ratio, in its simplest form ?

:
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2) Convert to mixed numeral.  $\frac{105}{11} =$ 

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      3)  $\frac{12}{30} \times \frac{6}{36} =$

4)  $23\frac{21}{25} + 36\frac{1}{4} =$

5) Round off to three decimal places.

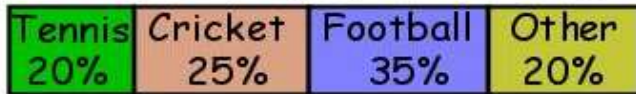
a)  $87.5135 =$

b)  $324.43976 =$

6) Find the highest common factor for these sets of numbers.

- a) 22, 77, 121 \_\_\_\_      b) 12, 20, 92 \_\_\_\_

7) This divided bar graph shows the preferred sport of 200 children.



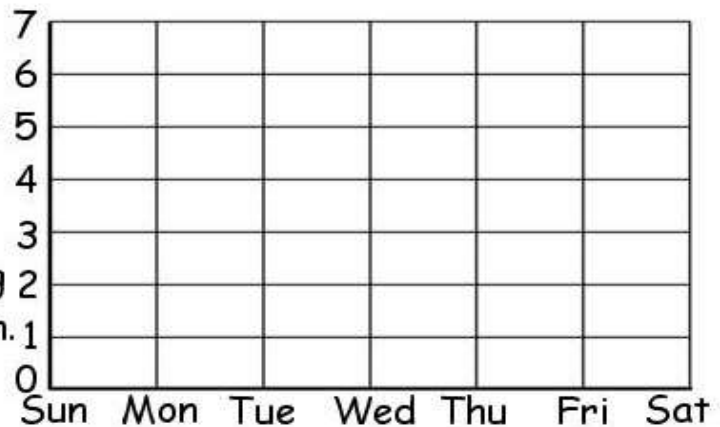
How many more children preferred football to tennis ?

Answer : \_\_\_\_\_

8) Plot the Line Graph.

Day of the Week	Hours Watched
Sun	6
Mon	6
Tue	0
Wed	1
Thu	1
Fri	5
Sat	7

Number of Hours watching television.



9) Here is a frequency distribution table, showing students' results.

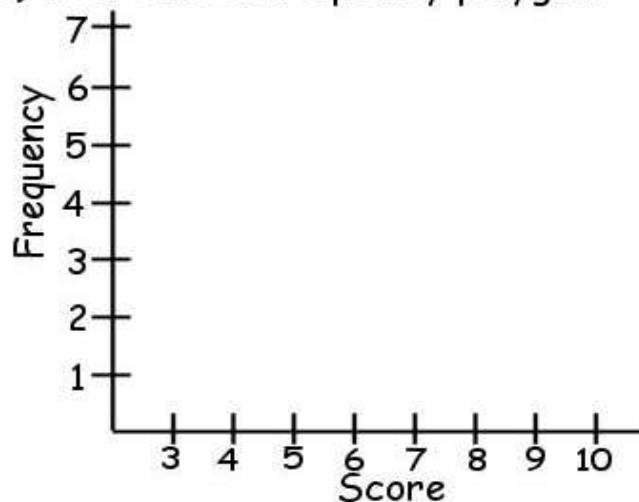
a) Complete the table.

Score	Tally	Frequency
3		
4		
5		
6		
7		
8		
9		
10		

Graph the information from the table

b) to create a frequency histogram.

c) to create a frequency polygon.



10) Make a Palindromic number from the number 67.

67+
+

11) Change

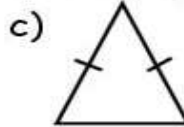
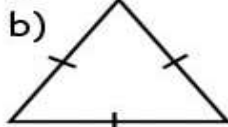
a) 752 056 to Roman Numerals.

\_\_\_\_\_

b)  $\overline{\text{MM}}\overline{\text{D}}\overline{\text{XC}}\overline{\text{V}}\overline{\text{MMM}}\overline{\text{CC}}$  to Hindu Arabic.

\_\_\_\_\_

12) Label these triangles as scalene, isosceles, right angled or equilateral.



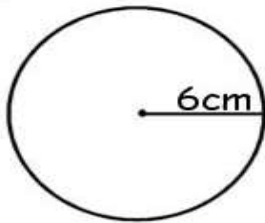
\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

13) Calculate the circumference of this circle. (Drawing not to scale.)



Circumference
= _____ cm

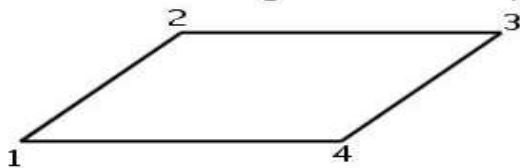
Working out:
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14) Fill in this table.

a) b) c) d) e) f) g) h)

Sides									
Corners									
Diagonals									

15) Use a protractor to measure the angles in this polygon, then write the angle size and type in the grid.



Angle	Size	Type
a) 1		
b) 2		
c) 3		
d) 4		

Result

34
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