



Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

Pythagoras, Archimedes and Galileo enjoy their regular game of basketball on the weekend. Their team is called Mathemia Magic and they are tipped to take out the championship.

- Galileo has had a spectacular season and doubled the amount of points he scored every time he played. In the first game he scored 4 points, the second 8, and so on. How many points did Galileo score in the eighth game of the season? .....
- In the Allstars Basketball League there are 13 teams. Mathemia Magic play all the other teams twice and play half the other teams three times. If they have two byes a season, how many games are in the season?



**PREVIEW**

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Angles were higher than the Perimeters.  
 Einstein: "Mathemia Magic were higher than the Angles and the Perimeters."  
 Edison: "I'm fairly sure that the Prisms were fifth."

List the order of the teams in the top five.

1. .... 2. .... 3. ....  
 4. .... 5. ....

- Mathemia Magic have a range of uniforms that they mix and match depending on who they are playing. There are three types of singlets, three types of shorts and three different caps.

How many different combinations could they wear? .....



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- Galileo has had a spectacular season and doubled the amount of points he scored every time he played. In the first game he scored 4 points, the second 8, and so on. How many points did Galileo score in the eighth game of the season? **512 points**
- In the Allstars Basketball League there are 13 teams. Mathemia Magic play all the other teams twice and play half the other teams three times. If they have two byes a season, how many games are in the season?



## PREVIEW

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Angles were higher than the Perimeters.  
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List the order of the teams in the top five.

- |                            |                                |                        |
|----------------------------|--------------------------------|------------------------|
| 1. <b>Polygons</b> .....   | 2. <b>Mathemia Magic</b> ..... | 3. <b>Angles</b> ..... |
| 4. <b>Perimeters</b> ..... | 5. <b>Prisms</b> .....         |                        |

- Mathemia Magic have a range of uniforms that they mix and match depending on who they are playing. There are three types of singlets, three types of shorts and three different caps.

How many different combinations could they wear? **27** .....