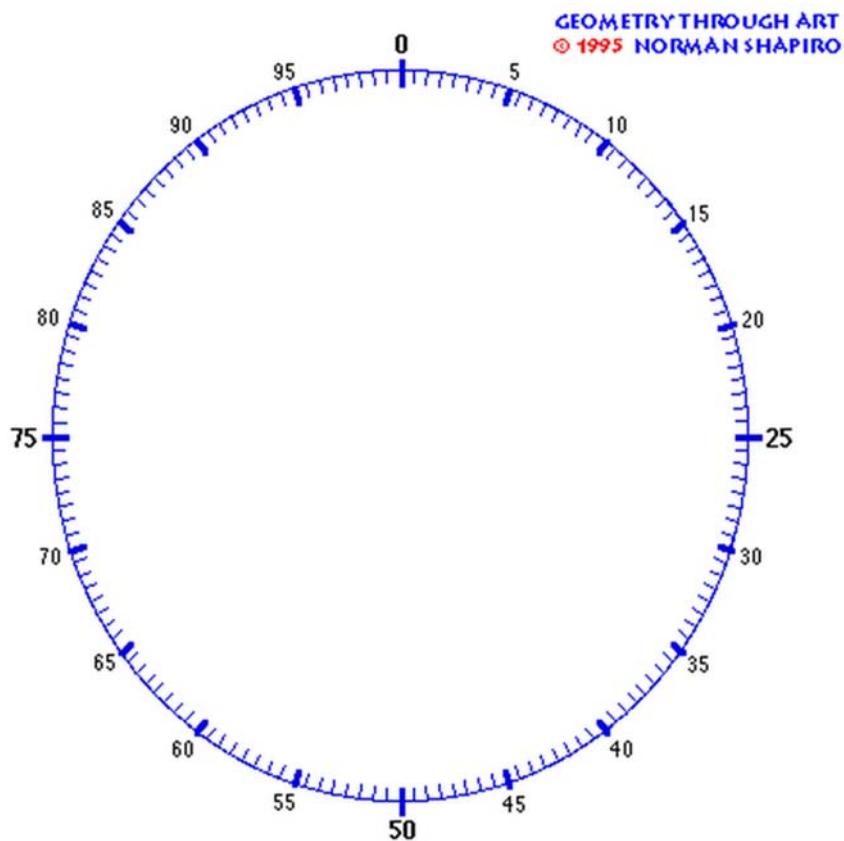


Head Protector

Sports-related Concussions in High Schools

| Sports | Concussions |
|------------|-------------|
| Football | 912 |
| Soccer | 262 |
| Basketball | 203 |
| Lacrosse | 153 |
| Wrestling | 112 |
| Ice Hockey | 80 |
| Other | 214 |
| Total | 1,936 |

1.) Use the data in the table to complete the circle graph below. Don't forget to label each wedge with the sport it represents and the percent of the total concussions reported for that sport.



2.) Athletes in which sport experienced the most concussions?

3.) How does the number of concussions reported for basketball and wrestling combined compare with that of soccer?

4.) Helmets are worn in ice hockey and football. What percent of total concussions reported came from those sports in which helmets are worn? Does this percentage surprise you? Explain why or why not.

5.) The total concussions reported for which sport surprised you the most? Why?

6.) Why do you think soccer and basketball have a higher amount of concussions than ice hockey?

Head Protector : Answer Key

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| Football | 912 |
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1.) Use the data in the table to complete the circle graph below. Don't forget to label each wedge with the sport it represents and the percent of the total concussions reported for that sport.

Football: $\frac{912}{1936} = 47\%$

Lacrosse: $\frac{153}{1936} = 8\%$

Soccer: $\frac{262}{1936} = 14\%$

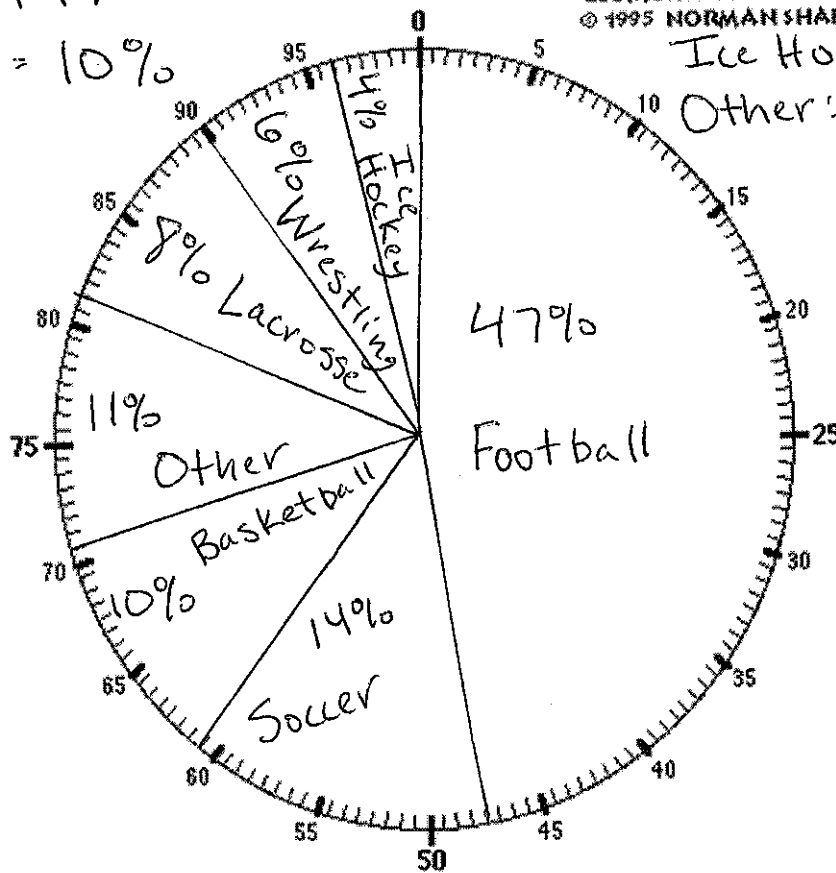
Wrestling: $\frac{112}{1936} = 6\%$

Basketball: $\frac{203}{1936} = 10\%$

GEOMETRY THROUGH ART
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Ice Hockey: $\frac{80}{1936} = 4\%$

Other: $\frac{214}{1936} = 11\%$



2.) Athletes in which sport experienced the most concussions?

Football athletes experienced the most concussions

3.) How does the number of concussions reported for basketball and wrestling combined compare with that of soccer?

Basketball and wrestling combined have more concussions than soccer

$$315 > 262$$

4.) Helmets are worn in ice hockey and football. What percent of total concussions reported came from those sports in which helmets are worn? Does this percentage surprise you? Explain why or why not.

$$47\% + 4\% = 51\%$$

Answers will vary

5.) The total concussions reported for which sport surprised you the most? Why?

Answers will vary

6.) Why do you think soccer and basketball have a higher amount of concussions than ice hockey?

Answers will vary