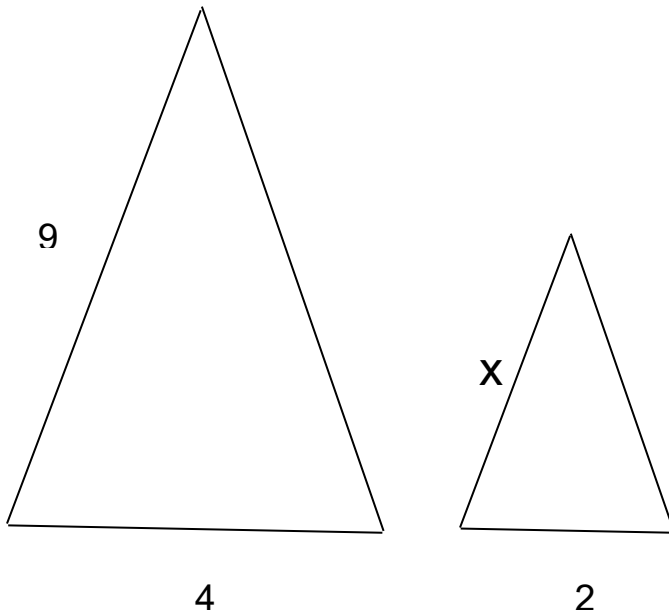




## MB2 Intermediate Diagnostic Test

1. Convert 24 centimeters to meters.
2. Convert 0.64 to a fraction.
3. What is the LCM of 9 and 105 multiplied by the GCF of 9 and 105?
4. Find  $x$  given that the two triangles are similar.

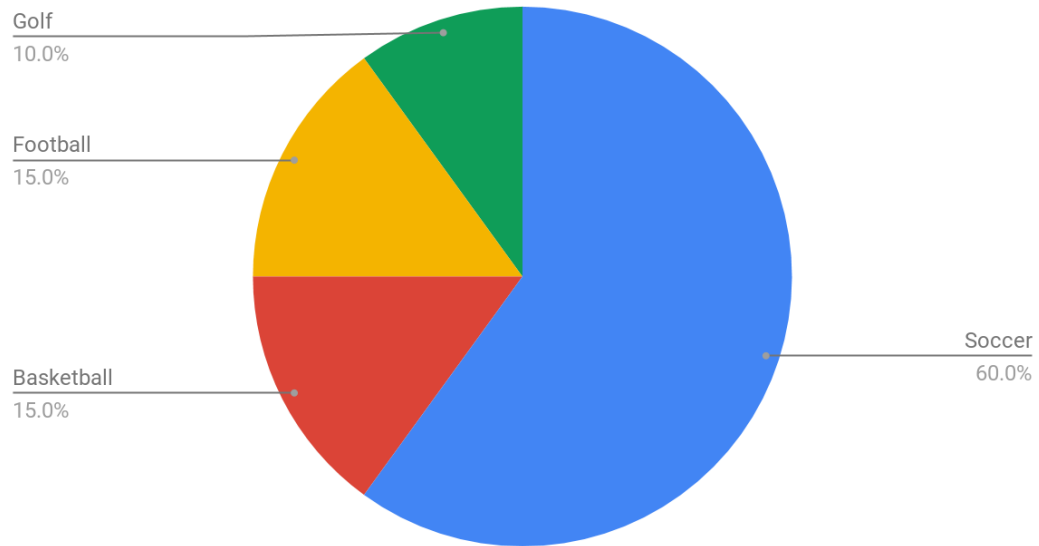


5. What is the volume of a cube given that each side length is 6 cm?
6. Is 637 prime(Y/N)?

(next problem is on next page)

7. Given that 200 people were surveyed for the following bar chart, how many people have a favorite sport of Soccer.

Favorite Sport



8. Find  $2 + 2 \div 2 + 2 \div 2$

9. Find  $\sqrt{196}$

10. Find

$$|1 - 2 + 3 - 4 + 5 - 6 + 7 - 8 + 9 - 10 + 11 - 12 + 13 - 14 + 15 - 16 + 17 - 18 + 19 - 20|$$



## MB2 Intermediate Diagnostic Test Answer Key

1. .24 m

16

2. 25

3. 945

4. 4.5

5. 216 cm<sup>3</sup>

6. N

7. 120

8. 4

9. 14

10. 10