

WEEK: 22

Week Beginning: (17/08/20)

Subject: MATHS

Year: 6

Lesson Objective:

- Understand how to fill in Venn Diagrams from word problems
- Be able to analyse Venn diagrams to answer questions
- Begin to look at fraction exponents

Class Worksheets

- Venn Diagram questions
- Fraction exponent Questions

Homework

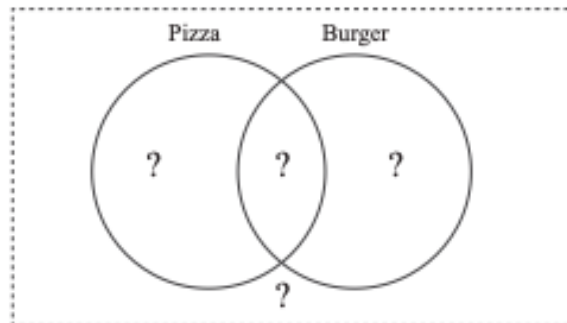
- Continue to work on Venn Diagram & Exponents

Additional Notes

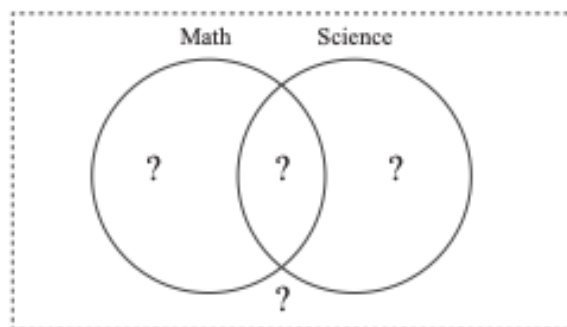
- All lesson worksheets and **homework for next week (due Week 23)** worksheets can be found below
- Week 21 homework will be marked in lesson hence make sure it is fully complete

Please print 2 a page or open this document during the lesson to save paper!

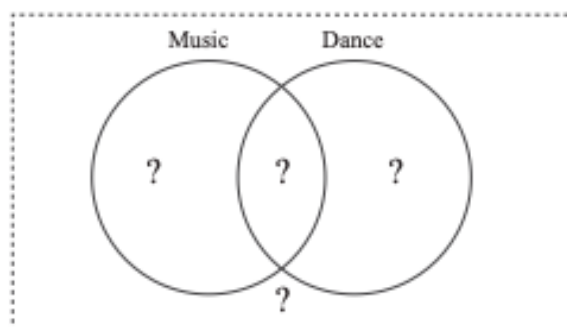
- 1) We asked a group of 50 people whether they like pizza and burgers. 10 people answered that they don't like pizza nor burgers at all. 20 people like both pizza and burgers and 12 people only liked pizza.



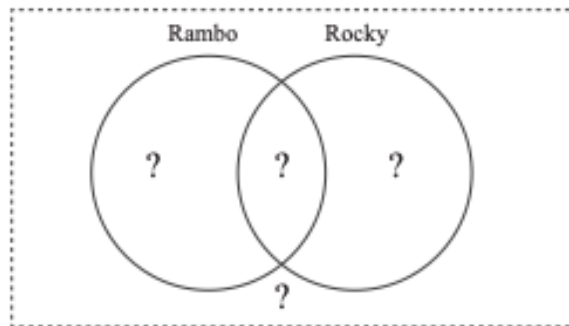
- 2) We asked 30 students whether they like Math or Science. 10 students like both math and science. 4 students said they only like Science. 6 students answered that they like Math but not Science.



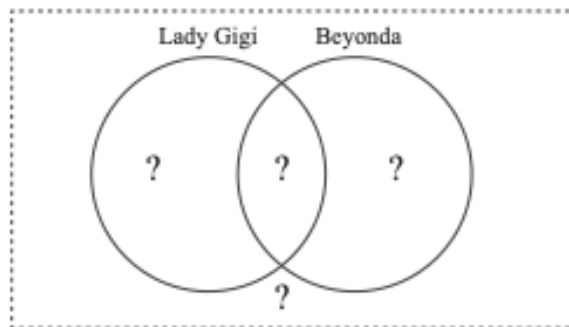
- 3) We asked 100 students whether they take music and dance classes. 20 students take both classes. 20 students answered that they don't take music nor dance. 30 students take music classes but not dance.



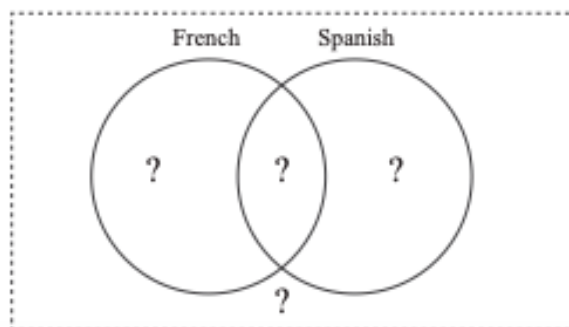
- 1) We asked 100 people whether they like the Rambo and Rocky movies. 50 people answered that they don't like either of them. 30 people like both movies and 10 people only like the Rocky movie.



- 2) We asked 200 people whether they like Lady Gigi and Beyonda. 100 people like both musicians and 50 people said to like only Lady Gigi. 15% of the people said they don't like either of them.



- 3) We asked 100 students whether they take Spanish and French classes. 10 students take both classes. 30 students don't take Spanish nor French and 40% of the students take Spanish but not French.



Calculate and give your answers in the lowest possible terms.

$$\left(\frac{1}{2}\right)^2 =$$

$$\left(\frac{1}{2}\right)^3 =$$

$$\left(\frac{1}{3}\right)^2 =$$

$$\left(\frac{1}{5}\right)^2 =$$

$$\left(\frac{1}{5}\right)^3 =$$

$$\left(-\frac{1}{4}\right)^2 =$$

$$\left(\frac{1}{4}\right)^3 =$$

$$\left(\frac{1}{5}\right)^4 =$$

$$\left(\frac{1}{3}\right)^4 =$$

$$\left(-\frac{1}{6}\right)^2 =$$

$$\left(\frac{2}{5}\right)^2 =$$

$$\left(\frac{4}{5}\right)^3 =$$

$$\left(\frac{1}{6}\right)^3 =$$

$$\left(-\frac{2}{3}\right)^3 = -$$

$$\left(\frac{2}{7}\right)^2 =$$

Homework Questions:

Calculate and give your answers in the lowest possible terms.

$$\left(\frac{1}{2}\right)^2 =$$

$$\left(\frac{1}{2}\right)^3 =$$

$$\left(\frac{1}{3}\right)^2 =$$

$$\left(\frac{1}{5}\right)^2 =$$

$$\left(\frac{1}{5}\right)^3 =$$

$$\left(-\frac{1}{4}\right)^2 =$$

$$\left(\frac{1}{4}\right)^3 =$$

$$\left(\frac{1}{5}\right)^4 =$$

$$\left(\frac{1}{3}\right)^4 =$$

$$\left(-\frac{1}{6}\right)^2 =$$

$$\left(\frac{2}{5}\right)^2 =$$

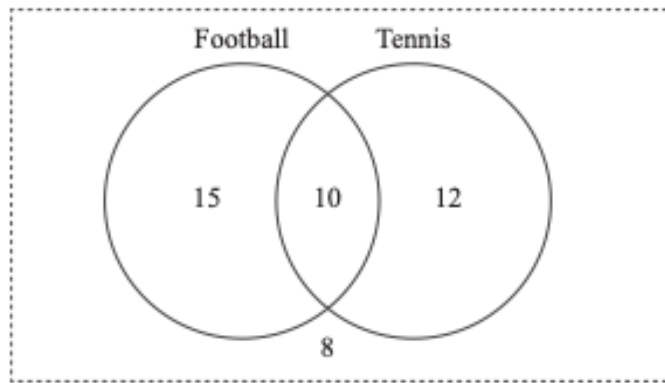
$$\left(\frac{4}{5}\right)^3 =$$

$$\left(\frac{1}{6}\right)^3 =$$

$$\left(-\frac{2}{3}\right)^3 = -$$

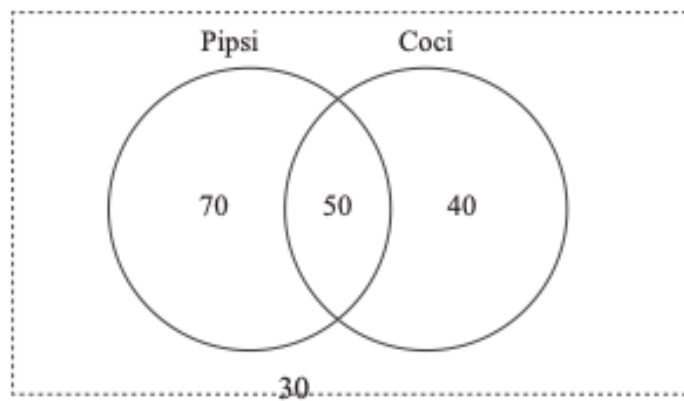
$$\left(\frac{2}{7}\right)^2 =$$

We asked a group of students whether they like football and tennis and made the following Venn diagram. Use the diagram to answer the questions.



- 1) How many students like only football?
- 2) How many students like only tennis?
- 3) How many students like both football and tennis?
- 4) How many students like football?
- 5) How many students do not like football?
- 6) How many students like football or tennis?
- 7) How many students don't like both football and tennis?
- 8) How many students do not like football nor tennis?

We asked a group of people which brand of cola they like: Pipsi and Coci. The results can be seen in the following Venn Diagram. Use the diagram to answer the questions.



- 1) How many people like only Pipsi?
- 2) How many people like only Coci?
- 3) How many people like both Pipsi and Coci?
- 4) How many people like Pipsi?
- 5) How many people do not like Coci?
- 6) How many people like Pipsi or Coci?
- 7) How many people don't like both Pipsi and Coci?
- 8) How many people do not like Pipsi nor Coci?