

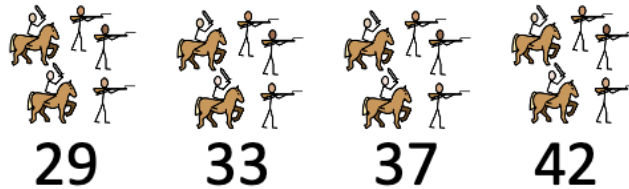
MATHS

YEAR 6

NUMBER: MULTIPLICATION AND DIVISION

NC. Objective: To identify common factors, common multiples and prime numbers.

1. The guards patrol the castle in groups. Which of these numbers could be the size of a prime-numbered patrol?



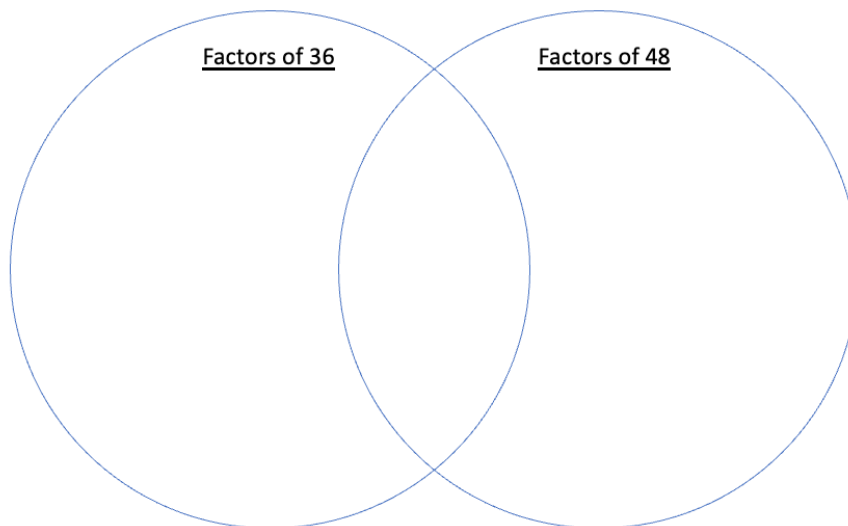
2. Ophelia picks a bunch of flowers from the garden. The number of flowers is a prime number that is greater than 50 but less than 60.



How many flowers did she pick?

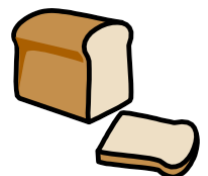
3. The Royal Feast requires 36 pies and 48 loaves of bread. The chef wants to arrange both items into equal groups.

Use the Venn diagram to show the common factors of 36 and 48.



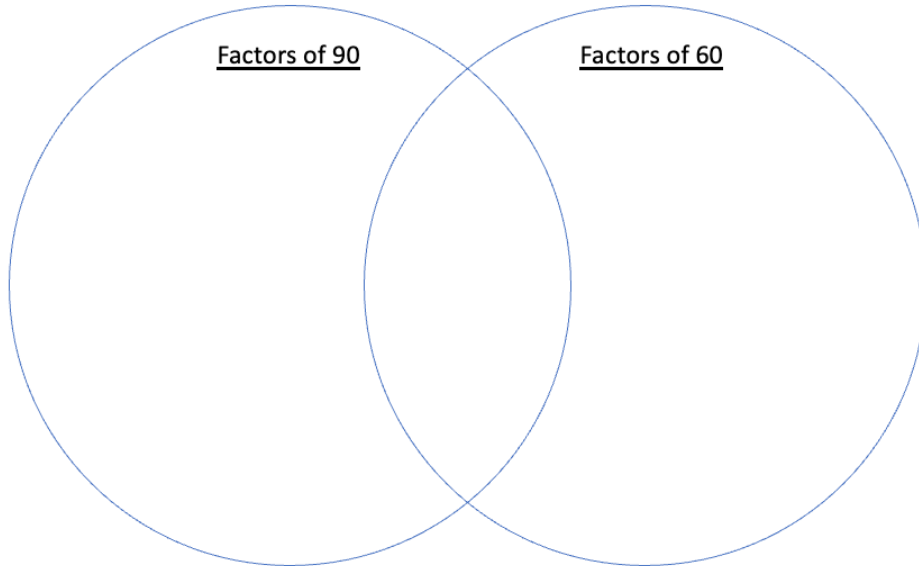
4. The castle cooks prepare 5 loaves of bread every hour and 3 pies every hour.

After how many hours will they have prepared the same number of loaves and pies?



5. Hamlet has 90 soldiers and 60 horses. He wants to form groups where each group has the same number of soldiers and horses.

Use the Venn diagram to show the common factors of 90 and 60.



CHALLENGE QUESTIONS

A scribe records 36 pages of poetry and 45 pages of history.

She wants to bind the pages into the largest possible books, each with the same number of pages.

How many pages will be in each book and how many books will she make?



The castle kitchen receives deliveries every 10 days and the market delivers fresh produce every 15 days.

Both deliveries happen today.

When will the next day of simultaneous deliveries occur?

