

(1) Key Terms

Estimate	To give an approximate answer using rounding.
Universal Set	The set containing all relevant individual items (called elements).
Set	A collection of objects or numbers.
Highest Common Factor (HCF)	For two numbers, the greatest number that is a factor of both numbers. For example, the HCF of 6 and 8 is 2.
Lowest Common Multiple (LCM)	For two numbers, the smallest number that is a multiple of both numbers. For example, the LCM of 2 and 3 is 6.

(2) Estimation



Making a quick **estimate** can help you **to spot calculation errors.**

Which is the most appropriate calculation to use to estimate the answer to 87×28 ?

80×20

80×30

90×20

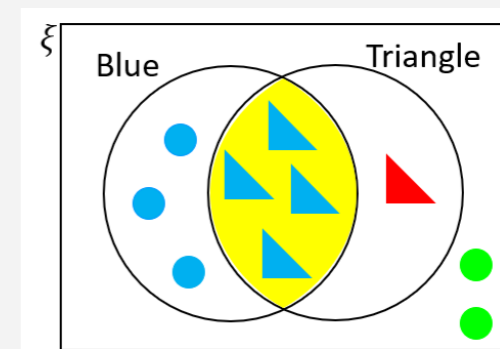
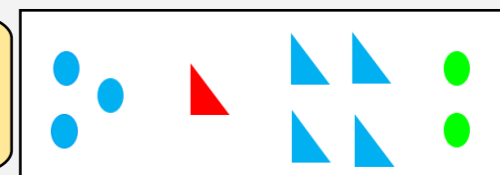
90×30 ✓

(3) Venn Diagrams

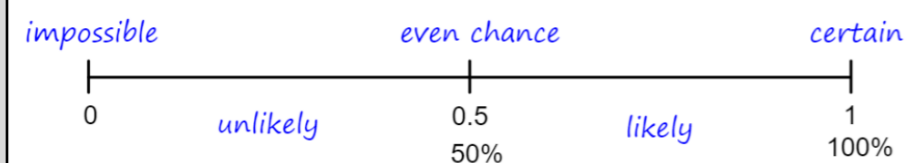


Venn diagrams allow you to organise two or more **sets** of data.

We can organise these shapes.

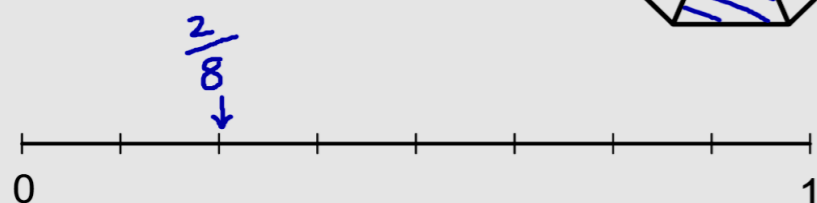
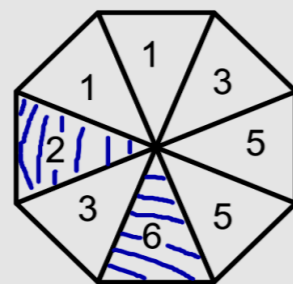


(4) The Probability Scale



The spinner is spun:

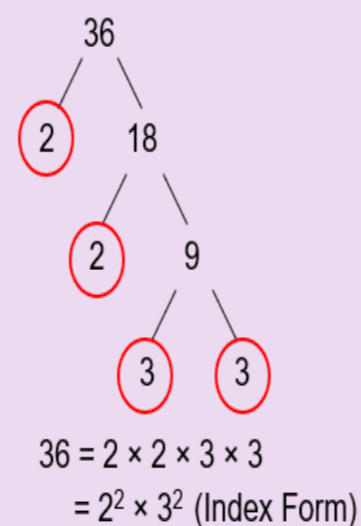
Mark on the **Probability Scale** the chance it lands on an **even number.**



(5) Product of Prime Factors



You can use a **Prime Factor Tree** to help display any positive integer as the **Product of its Prime Factors.**



1. **Divide** your number into **2 factors** that multiply to make your starting number.
2. **Circle** any factors that are prime numbers.
3. Continue to **divide** any **numbers** that are **not prime.**
4. Write your answer as a multiplication (product).

(6) Lowest Common Multiple

Find the lowest common multiple of 12 and 15

12, 24, 36, 48, **60**, 72, 84, 96 ...

15, 30, 45, **60**, 75, 90, 105 ...

Don't confuse **LCMs** with **HCFs.**
Think! Multiples need multiplications.

