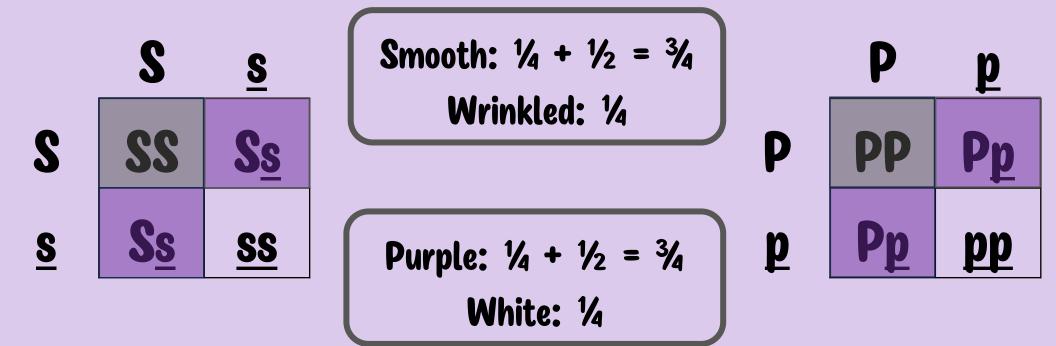


Math Monday #2

Probability Rules

In pea plants, smooth seeds are dominant to wrinkled, and purple flowers are dominant to white. In a dihybrid cross, what is the phenotypic ratio?



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Smooth: ³ / ₄	Vrinkled: ¼	Purple: ¾	White: ¼
Smooth & Purple: ¾ x ¾	= 9/16	Wrinkled & Purple: ¼ >	(³ / ₄ = 3/16
Smooth & White: ¾ x ¼	= 3/16	Wrinkled & White: ¼ >	x ¼ = 1/16

Example Problem

Probability Rules

In pea plants, T = tall, t = dwarf, R = round seeds, and r = wrinkled seeds. If a TtRr plant is crossed with a Ttrr plant, what fraction of the offspring will be tall and wrinkled?