## Using Punnett Squares


in the story, we show how a Punnett square can be used to calculiate the LIKELIHOOD THAT A SUPER-STRONG PERSON LIKE WONDERGUY COLLLD BE BORN FROM TWO PARENTS, EACH WITH A RECESSIVE STRENGTH GENE. LET'S LOOK AT DIFFERENT SCENARIOS. REMEMBER HOW DOMINANT AND RECESSIVETRAITS WORK:

| TT | SHOWS DOMINANT TRAIT |
| :---: | :---: |
| Tt | SHOWS DOMINANT TRAIT |
| $\mathbf{t t}$ | SHOWS RECESSIVE TRAIT |

1) SUPPOSE ONE PARENT IS SUPERSTRONG (tt) AND THE OTHER DOES NOT CARRY THE RECESSIVE GENE (TT J.


THE PROBABILITY THAT THEIR OFFSPRING
2) SUPPOSE ONE PARENT IS SUPERSTRONG (tt) AND THE OTHER DOES CARRY THE RECESSIVE GENE (Tt).


THE PROBABILITY THAT THEIR OFFSPRING . HAS SUPER-STRENGTH IS $\qquad$ .

## 3) SUPPOSE ONE PARENT CARRIES THE RECESSIVE GENE (Tt) AND THE OTHER DOES NOT (TT).



THE PROBABILITY THAT THEIR OFFSPRING
HAS SUPER-STRENGTH IS $\qquad$ .

SUPER-TRICKY! IN EACH CASE ABOVE, WHAT IS THE PROBABILITY THAT THEIR OFFSPRING DOES NOT HAVE SUPER-STRENGTH? IN EACH CASE, DO YOU NOTICE ANYTHING ABOLTT THE SUM OF THE PROBABILITIES?

