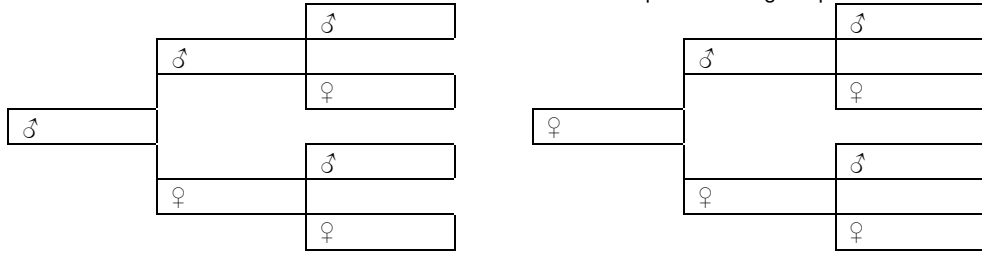


# BULL TERRIER COAT COLOUR PREDICTION TOOL

Record the colours below of the male and female mates and their parents and grandparents:



Look at the **extent of white** on the ♂ and ♀. Tick the correct boxes. Circle the ♂ and ♀ intersection in **TABLE 1**. Transfer the fractions into **each** box in the **first** column of the **Probability Calculator**.

**White** = body all white; with or without coloured head markings

♂	♀
<input type="checkbox"/>	<input type="checkbox"/>

**Coloured & White** = body predominantly coloured (not white); strong white collar, front and underbody

<input type="checkbox"/>	<input type="checkbox"/>
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**Solid Coloured** = body all coloured with or without limited white markings on the muzzle, chest and feet

<input type="checkbox"/>	<input type="checkbox"/>
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♂ TABLE 1 ♀	White	Coloured & White	Solid Coloured
White	White = 1/1 Coloured & White = 0 Solid Coloured = 0	White = 1/2 Coloured & White = 1/2 Solid Coloured = 0	White = 0 Coloured & White = 1/1 Solid Coloured = 0
Coloured & White	White = 1/2 Coloured & White = 1/2 Solid Coloured = 0	White = 1/4 Coloured & White = 1/2 Solid Coloured = 1/4	White = 0 Coloured & White = 1/2 Solid Coloured = 1/2
Solid Coloured	White = 0 Coloured & White = 1/1 Solid Coloured = 0	White = 0 Coloured & White = 1/2 Solid Coloured = 1/2	White = 0 Coloured & White = 0 Solid Coloured = 1/1

Look at the **base coat colour** on the ♂ and ♀. Tick the correct boxes. Circle the ♂ and ♀ intersection in **TABLE 2**. Transfer the fractions into **each** box in the **second** column of the **Probability Calculator**.

**True Red** = Red or Brindle coloured; no parents or grandparents that are Black & Tan/Tricolour or Black Brindle

♂	♀
<input type="checkbox"/>	<input type="checkbox"/>

**Red carrying Black on Red** = Red or Brindle coloured; with a parent or grandparent that is Black & Tan/Tricolour or Black Brindle

<input type="checkbox"/>	<input type="checkbox"/>
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**Black on Red** = Black & Tan/Tricolour or Black Brindle coloured

<input type="checkbox"/>	<input type="checkbox"/>
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♂ TABLE 2 ♀	True Red	Red carrying Black on Red	Black on Red
True Red	Red = 1/1 Black on Red = 0	Red = 1/1 Black on Red = 0	Red = 1/1 Black on Red = 0
Red carrying Black on Red	Red = 1/1 Black on Red = 0	Red = 3/4 Black on Red = 1/4	Red = 1/2 Black on Red = 1/2
Black on Red	Red = 1/1 Black on Red = 0	Red = 1/2 Black on Red = 1/2	Red = 0 Black on Red = 1/1

Look at the **patterning on the red base coat parts** on the ♂ and ♀. Tick the correct boxes. Circle the intersection in **TABLE 3**. Transfer the fractions into **each** box in the **third** column of the **Probability Calculator** below.

**True Brindle** = Brindle or Black Brindle coloured; with both Brindle parents and grandparents

♂	♀
<input type="checkbox"/>	<input type="checkbox"/>

**Brindle carrying No Brindle Pattern** = Brindle or Black Brindle coloured; but has a non-Brindle parent or grandparent

<input type="checkbox"/>	<input type="checkbox"/>
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**No Brindle Pattern** = Red or Black & Tan/Tricolour coloured

<input type="checkbox"/>	<input type="checkbox"/>
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♂ TABLE 3 ♀	True Brindle	Brindle carrying No Brindle Pattern	No Brindle Pattern
True Brindle	Brindle = 1/1 NO Brindle = 0	Brindle = 1/1 NO Brindle = 0	Brindle = 1/1 NO Brindle = 0
Brindle carrying No Brindle Pattern	Brindle = 1/1 NO Brindle = 0	Brindle = 3/4 NO Brindle = 1/4	Brindle = 1/2 NO Brindle = 1/2
No Brindle Pattern	Brindle = 1/1 NO Brindle = 0	Brindle = 1/2 NO Brindle = 1/2	Brindle = 0 NO Brindle = 1/1

## PROBABILITY CALCULATOR

Multiply the three fractions in the boxes across each row to produce the colour probabilities for the litter.

TABLE 1 fractions	TABLE 2 fractions	TABLE 3 fractions	COLOUR PROBABILITIES
White	<input type="checkbox"/> X	1/1 X	<input type="checkbox"/> White
Coloured & White	<input type="checkbox"/> X Red	<input type="checkbox"/> X Brindle	<input type="checkbox"/> Brindle & White
Coloured & White	<input type="checkbox"/> X Red	<input type="checkbox"/> X NO Brindle	<input type="checkbox"/> Red & White
Coloured & White	<input type="checkbox"/> X Black on Red	<input type="checkbox"/> X Brindle	<input type="checkbox"/> Black Brindle & White
Coloured & White	<input type="checkbox"/> X Black on Red	<input type="checkbox"/> X NO Brindle	<input type="checkbox"/> Tricolour
Solid Coloured	<input type="checkbox"/> X Red	<input type="checkbox"/> X Brindle	<input type="checkbox"/> Brindle Solid
Solid Coloured	<input type="checkbox"/> X Red	<input type="checkbox"/> X NO Brindle	<input type="checkbox"/> Red Solid
Solid Coloured	<input type="checkbox"/> X Black on Red	<input type="checkbox"/> X Brindle	<input type="checkbox"/> Black Brindle Solid
Solid Coloured	<input type="checkbox"/> X Black on Red	<input type="checkbox"/> X NO Brindle	<input type="checkbox"/> Black & Tan Solid

**REMEMBER:** The actual proportions of the different colours presented in the final column of the Probability Calculator table will only be evident with very large numbers of puppies as a single litter of puppies is too small statistically to reflect this. The table can however still show the possible colours that can result from a mating and give an indication of the probability of each colour occurring.