**Tenths:** Shade each of these carpets in the colours shown:

1)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | 1/2 blue  1/5 red  3/10 green |
|  |  |  |  |  |

2)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | 1/5 blue  1/5 red  6/10 green |
|  |  |  |  |  |

3)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | 3/5 blue  3/10 red  1/10 green |
|  |  |  |  |  |

4)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | 50% blue  10% red  40% green |
|  |  |  |  |  |

5)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | 20% blue  20% red  60% green |
|  |  |  |  |  |

6)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | 70% blue  10% red  20% green |
|  |  |  |  |  |

**Twelfths:** Shade each of these carpets in the colours shown:

1)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | 1/2 blue  1/3 red  1/6 green |
|  |  |  |  |  |  |

2)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | 1/4 blue  1/3 red  5/12 green |
|  |  |  |  |  |  |

3)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | 3/4 blue  1/12 red  1/6 green |
|  |  |  |  |  |  |

4)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | 50% blue  25% red  25% green |
|  |  |  |  |  |  |

5)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | 33.3…% blue 33.3…% red  33.3…% green |
|  |  |  |  |  |  |

6)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | 50% blue 33.3…% red  16.6…% green |
|  |  |  |  |  |  |

**Sixteenths:** Shade each of these carpets in the colours shown:

1)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  | 5/8 blue  1/4 red  1/8 green |
|  |  |  |  |  |  |  |  |

2)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  | 1/2 blue  1/16 red  7/16 green |
|  |  |  |  |  |  |  |  |

3)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  | 3/4 blue  1/16 red  3/16 green |
|  |  |  |  |  |  |  |  |

4)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  | 50% blue  25% red  25% green |
|  |  |  |  |  |  |  |  |

5)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  | 37.5% blue  12.5% red  50% green |
|  |  |  |  |  |  |  |  |

6)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  | 37.5% blue  37.5% red  25% green |
|  |  |  |  |  |  |  |  |

**Mixed tenths:** Shade each of these carpets in the colours shown:

1)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | 0.5 blue  1/5 red  30% green |
|  |  |  |  |  |

2)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | 20% blue  2/5 red  0.4 green |
|  |  |  |  |  |

3)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | 4/5 blue  0.1 red  10% green |
|  |  |  |  |  |

4)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | 40% blue  1/5 red  0.4 green |
|  |  |  |  |  |

5)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | 30% blue  0.3 red  2/5 green |
|  |  |  |  |  |

6)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | 0.7 blue  20% red  1/10 green |
|  |  |  |  |  |

**Mixed twelfths:** Shade each of these carpets in the colours shown:

1)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | 50% blue  0.333… red  1/6 green |
|  |  |  |  |  |  |

2)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | 0.25 blue  33.3…% red  5/12 green |
|  |  |  |  |  |  |

3)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | 0.75 blue  1/12 red  16.6…% green |
|  |  |  |  |  |  |

4)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | 50% blue  0.25 red  1/4 green |
|  |  |  |  |  |  |

5)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | 1/3 blue  33.3…% red  0.333… green |
|  |  |  |  |  |  |

6)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | 5/12 blue  33.3…% red  0.25 green |
|  |  |  |  |  |  |

**Mixed sixteenths:** Shade each of these carpets in the colours shown:

1)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  | 25% blue  1/4 red  0.5 green |
|  |  |  |  |  |  |  |  |

2)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  | 50% blue  0.375 red  1/8 green |
|  |  |  |  |  |  |  |  |

3)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  | 75% blue  1/8 red  0.125 green |
|  |  |  |  |  |  |  |  |

4)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  | 1/8 blue  62.5% red  0.25 green |
|  |  |  |  |  |  |  |  |

5)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  | 3/8 blue  12.5% red  0.5 green |
|  |  |  |  |  |  |  |  |

6)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  | 37.5% blue  0.375 red  1/4 green |
|  |  |  |  |  |  |  |  |