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

1)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | 1/2 blue1/5 red3/10 green |
|  |  |  |  |  |

2)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | 1/5 blue1/5 red6/10 green |
|  |  |  |  |  |

3)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | 3/5 blue3/10 red1/10 green |
|  |  |  |  |  |

4)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | 50% blue10% red40% green |
|  |  |  |  |  |

5)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | 20% blue20% red60% green |
|  |  |  |  |  |

6)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | 70% blue10% red20% green |
|  |  |  |  |  |

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

1)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | 1/2 blue1/3 red1/6 green |
|  |  |  |  |  |  |

2)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | 1/4 blue1/3 red5/12 green |
|  |  |  |  |  |  |

3)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | 3/4 blue1/12 red1/6 green |
|  |  |  |  |  |  |

4)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | 50% blue25% red25% green |
|  |  |  |  |  |  |

5)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | 33.3…% blue 33.3…% red33.3…% green |
|  |  |  |  |  |  |

6)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | 50% blue 33.3…% red16.6…% green |
|  |  |  |  |  |  |

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

1)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  | 5/8 blue1/4 red1/8 green |
|  |  |  |  |  |  |  |  |

2)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  | 1/2 blue1/16 red7/16 green |
|  |  |  |  |  |  |  |  |

3)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  | 3/4 blue1/16 red3/16 green |
|  |  |  |  |  |  |  |  |

4)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  | 50% blue25% red25% green |
|  |  |  |  |  |  |  |  |

5)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  | 37.5% blue12.5% red50% green |
|  |  |  |  |  |  |  |  |

6)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  | 37.5% blue37.5% red25% green |
|  |  |  |  |  |  |  |  |

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

1)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | 0.5 blue1/5 red30% green |
|  |  |  |  |  |

2)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | 20% blue2/5 red0.4 green |
|  |  |  |  |  |

3)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | 4/5 blue0.1 red10% green |
|  |  |  |  |  |

4)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | 40% blue1/5 red0.4 green |
|  |  |  |  |  |

5)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | 30% blue0.3 red2/5 green |
|  |  |  |  |  |

6)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | 0.7 blue20% red1/10 green |
|  |  |  |  |  |

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

1)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | 50% blue0.333… red1/6 green |
|  |  |  |  |  |  |

2)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | 0.25 blue33.3…% red5/12 green |
|  |  |  |  |  |  |

3)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | 0.75 blue1/12 red16.6…% green |
|  |  |  |  |  |  |

4)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | 50% blue0.25 red1/4 green |
|  |  |  |  |  |  |

5)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | 1/3 blue33.3…% red0.333… green |
|  |  |  |  |  |  |

6)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | 5/12 blue33.3…% red0.25 green |
|  |  |  |  |  |  |

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

1)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  | 25% blue1/4 red0.5 green |
|  |  |  |  |  |  |  |  |

2)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  | 50% blue0.375 red1/8 green |
|  |  |  |  |  |  |  |  |

3)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  | 75% blue1/8 red0.125 green |
|  |  |  |  |  |  |  |  |

4)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  | 1/8 blue62.5% red0.25 green |
|  |  |  |  |  |  |  |  |

5)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  | 3/8 blue12.5% red0.5 green |
|  |  |  |  |  |  |  |  |

6)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  | 37.5% blue0.375 red1/4 green |
|  |  |  |  |  |  |  |  |