



Math worksheet on 'Factorial Calculation - 1 over Sin Multiplication (Level 1)'. Part of a broader unit on 'Probability and Statistics - Probability with Factorials Intro'

Learn online:

[app.mobius.academy/math/units/probability\\_and\\_statistics\\_probability\\_with\\_factorials](http://app.mobius.academy/math/units/probability_and_statistics_probability_with_factorials)

**1** What is the value of this factorial expression?

$$\frac{1}{2! \cdot 5!}$$

<b>a</b> $\frac{1}{120}$	<b>b</b> $\frac{1}{24}$	<b>c</b> $\frac{1}{48}$
<b>d</b> $\frac{1}{240}$	<b>e</b> $\frac{1}{144}$	

**2** What is the value of this factorial expression?

$$\frac{1}{5! \cdot 2!}$$

<b>a</b> $\frac{1}{12}$	<b>b</b> $\frac{1}{240}$	<b>c</b> $\frac{1}{144}$
<b>d</b> $\frac{1}{120}$		

**3** What is the value of this factorial expression?

$$\frac{1}{2! \cdot 2!}$$

<b>a</b> $\frac{1}{48}$	<b>b</b> $\frac{1}{2}$	<b>c</b> $\frac{1}{12}$
<b>d</b> $\frac{1}{4}$		

**4** What is the value of this factorial expression?

$$\frac{1}{3! \cdot 2!}$$

<b>a</b> $\frac{1}{2}$	<b>b</b> $\frac{1}{6}$	<b>c</b> $\frac{1}{120}$
<b>d</b> $\frac{1}{12}$	<b>e</b> $\frac{1}{48}$	

**5** What is the value of this factorial expression?

$$\frac{1}{3! \cdot 3!}$$

<b>a</b> $\frac{1}{144}$	<b>b</b> $\frac{1}{6}$	<b>c</b> $\frac{1}{12}$
<b>d</b> $\frac{1}{36}$		

**6** What is the value of this factorial expression?

$$\frac{1}{4! \cdot 3!}$$

<b>a</b> $\frac{1}{36}$	<b>b</b> $\frac{1}{240}$	<b>c</b> $\frac{1}{48}$
<b>d</b> $\frac{1}{144}$		

**7** What is the value of this factorial expression?

$$\frac{1}{4! \cdot 2!}$$

<b>a</b> $\frac{1}{48}$	<b>b</b> $\frac{1}{240}$	<b>c</b> $\frac{1}{144}$
<b>d</b> $\frac{1}{24}$	<b>e</b> $\frac{1}{4}$	