

Math Sheet

Name _____ Score _____ Teacher _____ Date _____

Parallel and Perpendicular Slopes

Give the slope of a parallel line and the slope of a perpendicular line for each given slope.

1. Given slope: 1
Given: 1

Parallel slope: _____ Perpendicular slope: _____

2. Given slope: 3/10
Given: $\frac{3}{10}$

Parallel slope: _____ Perpendicular slope: _____

3. Given slope: -11/9
Given: $-\frac{11}{9}$

Parallel slope: _____ Perpendicular slope: _____

4. Given slope: -11/2
Given: $-\frac{11}{2}$

Parallel slope: _____ Perpendicular slope: _____

5. Given slope: -11/4
Given: $-\frac{11}{4}$

Parallel slope: _____ Perpendicular slope: _____

6. Given slope: -9
Given: -9

Parallel slope: _____ Perpendicular slope: _____

7. Given slope: -5/11
Given: $-\frac{5}{11}$

Parallel slope: _____ Perpendicular slope: _____

8. Given slope: -11/5
Given: $-\frac{11}{5}$

Parallel slope: _____ Perpendicular slope: _____

9. Given slope: 0
Given: 0

Parallel slope: _____ Perpendicular slope: _____

10. Given slope: undefined
Given: undefined

Parallel slope: _____ Perpendicular slope: _____

Parallel and Perpendicular Slopes
Worked Answer Key

Give the slope of a parallel line and the slope of a perpendicular line for each given slope.

1. Given slope: 1

Given: 1

A parallel line has slope 1.
A perpendicular line has slope -1.

Parallel: 1 Perpendicular: -1

2. Given slope: 3/10

Given: $\frac{3}{10}$

A parallel line has slope 3/10.
A perpendicular line has slope -10/3.

Parallel: $\frac{3}{10}$ Perpendicular: $-\frac{10}{3}$

3. Given slope: -11/9

Given: $-\frac{11}{9}$

A parallel line has slope -11/9.
A perpendicular line has slope 9/11.

Parallel: $-\frac{11}{9}$ Perpendicular: $\frac{9}{11}$

4. Given slope: -11/2

Given: $-\frac{11}{2}$

A parallel line has slope -11/2.
A perpendicular line has slope 2/11.

Parallel: $-\frac{11}{2}$ Perpendicular: $\frac{2}{11}$

5. Given slope: -11/4

Given: $-\frac{11}{4}$

A parallel line has slope -11/4.
A perpendicular line has slope 4/11.

Parallel: $-\frac{11}{4}$ Perpendicular: $\frac{4}{11}$

6. Given slope: -9

Given: -9

A parallel line has slope -9.
A perpendicular line has slope 1/9.

Parallel: -9 Perpendicular: $\frac{1}{9}$

7. Given slope: -5/11

Given: $-\frac{5}{11}$

A parallel line has slope -5/11.
A perpendicular line has slope 11/5.

Parallel: $-\frac{5}{11}$ Perpendicular: $\frac{11}{5}$

8. Given slope: -11/5

Given: $-\frac{11}{5}$

A parallel line has slope -11/5.
A perpendicular line has slope 5/11.

Parallel: $-\frac{11}{5}$ Perpendicular: $\frac{5}{11}$

9. Given slope: 0

Given: 0

A parallel line has slope 0.
A perpendicular line has slope undefined.

Parallel: 0 Perpendicular: undefined

10. Given slope: undefined

Given: undefined

A parallel line has slope undefined.
A perpendicular line has slope 0.

Parallel: undefined Perpendicular: 0