# Work Out the Gradient of a Line Perpendicular to a Given Line 

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Please note some slides do have colour font on them

## Find the gradient of perpendicular line

1. Work out the gradient of each line




2. Find the gradient of a line that is perpendicular to each of the following:
a) $y=4 x+8$
b) $y=10-9 x$
c) $y=12+\frac{1}{3} x$
d) $y-3=-\frac{1}{2} x$
e) $3 y=4 x+5$
f) $2 y-x=0$
g) $2 x-\frac{1}{4} y+5=1$

Answers

## Find the gradient of perpendicular line

1. Work out the gradient of each line



2. Find the gradient of a line that is perpendicular to each of the following:
a) $y=4 x+8$
a) $-\frac{1}{4}$
b) $y=10-9 x$
b) $\frac{1}{9}$
c) $y=12+\frac{1}{3} x$
c) -3
d) $y-3=-\frac{1}{2} x$
d) 2
e) $3 y=4 x+5$
e) $-\frac{3}{4}$
f) $2 y-x=0$
f) -2
g) $2 x-\frac{1}{4} y+5=1$
g) $-\frac{1}{8}$
