

# Bike repairs

This task is about graphing and solving linear equations.

Adam needs to find someone to mend his mountain bike.

The local bike shop says that this will cost \$15 plus \$2 per minute of time they spend fixing it.

This can be written as the equation:

$$c = 2t + 15$$

where  $c$  is the cost in dollars

$t$  is the time spent in minutes

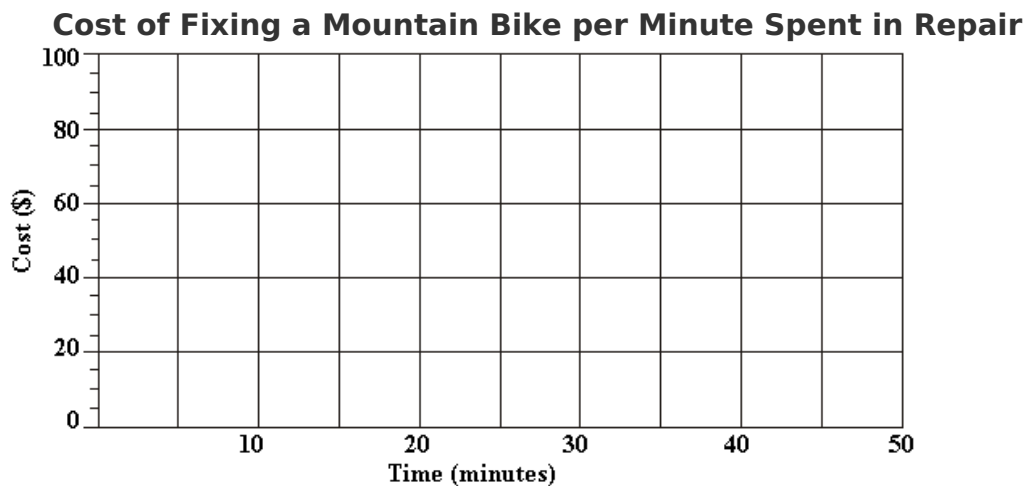


Fill in the costs in this table for each of the times given.

a)

<b>Time (<math>t</math>)</b>	10	20	30	40
<b>Cost (<math>c</math>)</b>				

b) This rule can be drawn as a graph. Plot the points from the table in a) on this graph.



c) If the repairs took 35 minutes, what was the cost? \$ \_\_\_\_\_

d) If the job cost \$45, how long did the repairs take? \_\_\_\_\_ minutes