



Comparing Proportional Relationships in Different Formats (page 1)

You can use table, graphs, words or equations to represent and compare proportional relationships. Different cyclists rates are represented below.

<p>Words Cyclist A</p> <p><i>A cyclist can ride 24 miles in 2 hours.</i></p>	<p>Equation Cyclist C</p> <p>$y = 9x$</p>										
<p>Table Cyclist B</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="padding: 5px;">Time Hours</th> <th style="padding: 5px;">Distance (miles)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 5px;">0</td> <td style="text-align: center; padding: 5px;">0</td> </tr> <tr> <td style="text-align: center; padding: 5px;">1</td> <td style="text-align: center; padding: 5px;">5</td> </tr> <tr> <td style="text-align: center; padding: 5px;">2</td> <td style="text-align: center; padding: 5px;">10</td> </tr> <tr> <td style="text-align: center; padding: 5px;">3</td> <td style="text-align: center; padding: 5px;">15</td> </tr> </tbody> </table>	Time Hours	Distance (miles)	0	0	1	5	2	10	3	15	<p>Graph Cyclist D</p>
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Which cyclist is faster? **A** Slower? **B** Explain your reasoning. *Cyclist A's rate is $\frac{24 \text{ miles}}{2 \text{ hours}} = \frac{12 \text{ miles}}{1 \text{ hour}}$, cyclist B's rate is 5mph, cyclist C's rate is 9mph and Cyclist D's rate is 10mph.*



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Comparing Proportional Relationships in Different Formats (page 2)

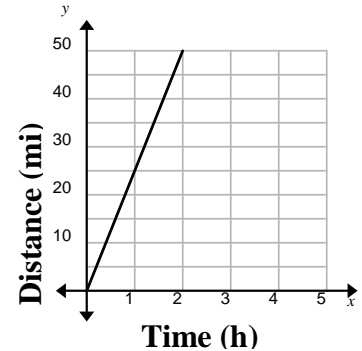
1. Earnings for 3 weeks from a part time job are shown in the table.

Time Worked (h)	11	21	8
Total Pay (\$)	78.65	150.15	57.20

He is offered a job that will pay \$7.25 per hour. Which job pays better?
Explain your reasoning.

2. The distance d in miles that can be covered by a rabbit in t hours is given in the equation $d = 30t$.

The distance covered by a bear is shown on the graph.
Which animal is faster?
Explain your reasoning.



3. A grocery store is selling a 3 pound bag of navel oranges for \$4.20.

The table shows the cost of purchasing the oranges separately.

Number of Oranges	2	4	6
Total Cost (\$)	3.00	6.00	9.00

Which is the better buy?
Explain your reasoning.

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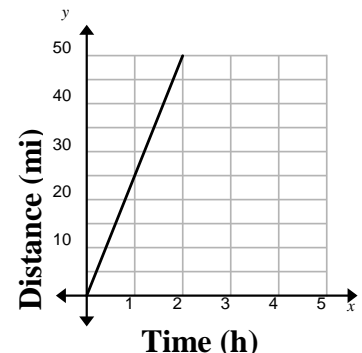
4. Earnings for 3 weeks from a part time job are shown in the table.

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