

Objective: TBAT use inverse proportion to solve problems



Met



Partially
Met



Not Met

Work on the following sections:



Column 1



Column 2



Extension

Column 1	Column 2
<p>Kayley bought 20 items at £5 each.</p> <p>a) How much Did Kayley pay for the 20 items?</p> <p>b) If Kayley spends the same amount of money, how many items can Kayley buy if they cost £25 each?</p>	<p>y is inversely proportional to x. When $y = 2$, $x = 10$.</p> <p>a) What does xy equal?</p> <p>b) What will x be when $y = 5$?</p> <p>c) What will y be when $x = 25$?</p> <p>d) What other whole number combinations are possible?</p>
<p>It takes 5 men 4 days to build a wall.</p> <p>a) How many man days does it take to build the wall?</p> <p>b) If 4 men build the wall, how many days will it take them</p>	<p>A rectangle has an area 48cm^2.</p> <p>Width</p> <p>Area = 48cm^2 Length</p> <p>Explain why the length of the rectangle is inversely proportional to the width. The length is 1cm when the width is 48cm. Calculate the width when the length is (a) 4cm (b) 6cm (c) 8cm</p>

Extension:

When $x = 2.1$, $y = 14$, but when $x = 7$, $y = 4.2$.

a) Work out the formula for this relationship.

b) What is the value of y when $x = 2\frac{1}{10}$