|  |  |  |  |
| --- | --- | --- | --- |
| **\*P is directly proportional to the square root of Q.****P=24 when Q=36.**1. **Find the equation linking P to Q**
2. **Find P when Q=144**
 | **Work out the following**1.
2.
3.
4.
 | **Write****in the form** **Can you create a similar problem where the solution is ?** | **Rationalise the denominator and simplify the following:**1.
2.
 |
| **\*Aleema puts some money in a bank account and receives 5% interest per year? After 2 years, she has £683.55.** **C:\Users\Mo\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\OKE39XXV\MC900440380[1].pngHow much did she have originally?** | **\*** a = 3.4 (1dp) b = 5.8 (1dp)  c = 5.12 (2dp)Calculate the lower bound of the following | **Write the following as fractions** 1.
2.
 | **\*D is inversely proportional to M. D=10 when M=4.**1. **Find the equation linking D to M**
2. **Find D when M=0.5**
 |
| **Find the value of y in the equation below.** | \*A fruit drink is made by mixing juice and lemonade in the ratio **1:4**.Juice costs **£6** per litre.Lemonade costs **50p** per litre.C:\Users\Mo\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\OKE39XXV\MC900295765[1].wmfIf the fruit drink is sold for **£2** a litre, work out the percentage profit.  | **Simplify the following:**1.
2.
3.
 | **\*Is this a right-angled triangle? Explain how you know.** |

\*Calculator allowed