

**Inverse Ratios**

The chocolate factory makes 120 kg of chocolate today. They make three different packets of chocolate.

Packet Sizes		
100 grams	400 grams	1200 grams

If they make only 100 gram packets how many packets do they make?

If they make only 400 gram packets how many packets do they make?

If they make only 1200 gram packets how many packets do they make?

Write down a rule: Number of packet times weight in gram of a packet =

Mr Sugar is an estimator for a painting company. He looks at Mrs McArtie’s house and estimates it will take 48 “painter-days” to paint it. So 1 painter will take 48 days whereas 8 painters will take 6 days. Write down all the other combinations possible.

On another painting job Mr Sugar assigns 12 painters for 6 days. Find all the other ways he could assign the painters.

Jean estimates 120 workers are required for 120 days to build a new car park. The owner wants it finished in 80 days. How many workers will Jean have to assign to the building? Explain your method.

A book seller plans how much she will sell a new block buster book for. The table shows her estimates how altering the selling price of the book alters the number sold. Look carefully at the table, then estimate the sales if the book seller charges \$30.

Cost per Book	Number Sold	Total Money
\$48	6000	\$288 000
\$24	12 000	\$288 000
\$36	8000	\$288 000
\$72	4000	\$288 000

Working and answer