JustMaths

Product of Prime Factors

How to ... , means 'x' Youneed to / know what numbersare Write 525 as a product of its prime factors. There are a couple of ways of dang this:1. using a prume factor tree: 525 525 = 5×5×3×7 = 5² × 3×7 2 division 5 | 525 5 <u>105</u> 525 = 5×5×3×7 (3) $=5^{2}\times3\times7$

Now have a go yourself

SORTED IT – express the following as a product of prime factors

a) 15

b) 10

c) 9

d) 18

e) 28

f) 42

g) 50

h) 72

i) 94

NAILED IT

- **a)** 150
- **b)** 32

c) 96

- **d)** 210
- **e)** 240
- **f)** 288

g) 576

- **h)** 1372
- **i)** 2744

<u>Mastered IT</u>

The below can be written in the form $2^a \times 3^b \times 5^c \times 7^d$. What are the values of a, b, c and d.

a) 1260

b) 840

c) 90

d) 135

e) 245

f) 490

g) 1152

h) 4116

Exam Questions

Q1. Find the prime factors of 102

Q2. The number 84 can be written in the form $2^n \times m \times p$, where n, m and p are prime numbers. Find the values of n, m and p.

Ready to be marked?

Checklist		
		Answer checked
		Working out shown
	Keywo	ords
. ₩		_
> 00	Thing	s to remember
o Conso	Thing	s to remember
Korget Korget	Thing:	s to remember
Korget Korget	Thing:	s to remember
142		went well
Konget Konget		
142		went well