## Multiplication and Division: Build It

| Aim: |
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| Multiply and divide numbers mentally drawing |
| upon known facts. |
| I can use known facts to multiply and divide |
| mentally. |
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Success Criteria:
I use factors to make multiplication and division
calculations easier.
I can multiply by 9 and 11 by multiplying by }1
and adjusting.
I can multiply by 5 by multiplying by }10\mathrm{ and
halving.
I can multiply by 50 by multiplying by 100 and
halving.
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## Key/New Words:

Divide, multiply, partition, adjusting, factors, halving, product.

## Resources:

Lesson Pack
Whiteboards and pens - class set Calculators (optional)

## Preparation:

Differentiated Build It Activity Cards - one per child

Prior Learning: It will be helpful if the children can multiply by 10 and 100 and can identify the factors of numbers to 50 .

Learning Sequence
The Fifteen Times Table: The children work out and learn the fifteen times table using the counting stick on the
Lesson Presentation. Emphasise the relationship between the facts, e.g. $5 \times 15$ is half of $10 \times 15,2 \times 15$ is double

$1 \times 15,9 \times 15$ is $(10 \times 15)-(1 \times 15)$. | Multiplying by Nine: Using the examples on the Lesson Presentation, demonstrate how to multiply by 9 by |
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| multiplying by 10 and subtracting to adjust. | | Multiplying by Eleven: Using the examples on the Lesson Presentation, demonstrate how to multiply by 11 by |
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| multiplying by 10 and adding to adjust. |
| Maltiplying by Five and Fifty: Using the examples on the Lesson Presentation, demonstrate how to multiply by |
| calculations on individual whiteboards. |

## Masterit

Timesit: Ask children to use some of the strategies practised in today's mental and oral starter to work out a new multiplication table between 15 and 20 . Once they have learnt the facts, they can ask a partner to test them.

