# Discussion Problems
# Step 7: Multiply 3 Digits by 1 Digit

## National Curriculum Objectives:

**Mathematics Year 4: (4C6a) Recall multiplication and division facts for multiplication tables up to 12 × 12**
**Mathematics Year 4: (4C7) Multiply two-digit and three-digit numbers by a one-digit number using formal written layout**

## About this resource:

This resource has been designed for pupils who understand the concepts within this step. It provides pupils with more opportunities to enhance their reasoning and problem solving skills through more challenging problems. Pupils can work in pairs or small groups to discuss with each other about how best to tackle the problem, as there is often more than one answer or more than one way to work through the problem.

There may be various answers for each problem. Where this is the case, we have provided one example answer to guide discussion.

We recommend self or peer marking using the answer page provided to promote discussion and self-correction.

## More Year 4 Multiplication and Division resources.

## Did you like this resource? Don't forget to review it on our website.

# Multiply 3 Digits by 1 Digit

1. Su Lin is baking bread. She needs 3,830g of flour to make 8 loaves. Flour is sold in large or small bags.

**750g**

**325g**

Explore the different combinations of large and small bags that Su Lin could buy so she has enough flour.

Which combination is closest to the amount required?

DP

2. These friends are playing a game. Use the clues to help you explore what scores they could have.

**Elijah**

**Phoebe**

**Jakub**

**Maryam**

There are 2-digits in my score. They add up to 9. My score is less than 40.

I scored 9 times more than Elijah.

I scored 3 times more than Phoebe.

I won because I scored 7 times more than Phoebe's score.

DP

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Discussion Problems – Multiply 3 Digits by 1 Digit – Year 4

# Multiply 3 Digits by 1 Digit

1. Su Lin is baking bread. She needs 3,830g of flour to make 8 loaves. Flour is sold in large or small bags.

**750g**　　　**325g**

Explore the different combinations of large and small bags that Su Lin could buy so she has enough flour.

Various answers, for example: 5 large bags and 1 small bag.

Which combination is closest to the amount required?

3 large bags and 5 small bags = 3,875g

DP

2. These friends are playing a game. Use the clues to help you explore what scores they could have.

**Elijah**　　　**Phoebe**　　　**Jakub**　　　**Maryam**

There are 2-digits in my score. They add up to 9. My score is less than 40.

I scored 9 times more than Elijah.

I scored 3 times more than Phoebe.

I won because I scored 7 times more than Phoebe's score.

Various answers, for example: Elijah – 36 points, Phoebe – 324 points, Jakub – 972 points and Maryam – 2,268 points.

DP

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