## Lesson 4: Monday 11th Jan Efficient Multiplication

Spring Term: Block 1

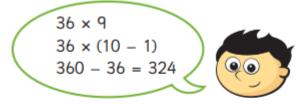
$$20 \times 4 = 80$$
  
 $80 - 4 = 76$   
 $21 \times 4 = 76$ 

a) What mistake has Scott made?

b) What is the correct answer?

2

Jack works out 36 x 9



Adapt Jack's method to work out 36 x 99

Esther has found a quick way to multiply 84 by 5

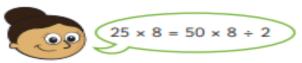
$$84 \times 5$$
  
 $84 \times 10 = 840$   
(then divide by 2) which is 420

Use Esther's method to complete the calculations.

## **Challenge:**

Tommy and Dora are both working out 25  $\times$  8

a) Use Tommy's method to work out the answer.



b) Use Dora's method to work out the answer.

c) Whose method do you prefer? Why?

d) Do you know another method?

Scott is working out 21 × 4



$$20 \times 4 = 80$$
  
 $80 - 4 = 76$   
 $21 \times 4 = 76$ 

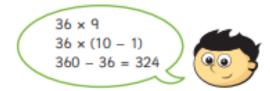
a) What mistake has Scott made?

He has taken in he should have added it.

b) What is the correct answer?



Jack works out 36 x 9



Adapt Jack's method to work out 36 x 99

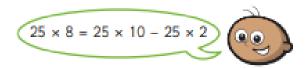
3

Esther has found a quick way to multiply 84 by 5

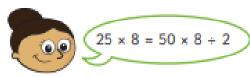
Use Esther's method to complete the calculations.

## **Challenge:**

Tommy and Dora are both working out 25  $\times$  8



a) Use Tommy's method to work out the answer.



b) Use Dora's method to work out the answer.

200

200

c) Whose method do you prefer? Why?