

MULTIPLE WAYS TO ADD AND SUBTRACT

E	CA	AC	EA	AA	AM	AP
---	----	----	----	----	----	----

I am learning to use multiplication and division to solve addition and subtraction problems.

PRIOR KNOWLEDGE REQUIRED: To do this I must understand exactly what multiplication means and what it looks like.

1) Complete this table with a partner. You will need counters or beans or some similar material.

Question	Could you make it? To be marked by your partner.	What is this multiplication the same as?
a) $4 \times 8 =$	✓	$8 \times 4 = 32$
b) $3 \times 7 =$		
c) $2 \times 4 =$		
d) $9 \times 3 =$		
e) $5 \times 6 =$		
f) $4 \times 8 =$		

NEW STRATEGY WITH MATERIALS:

2)

Array 1	Array 2	Added together equals
a) $4 \times 3 =$	$5 \times 3 =$	$9 \times 3 = 27$
b) $7 \times 2 =$	$7 \times 4 =$	
c) $9 \times 3 =$	$9 \times 5 =$	
d) $2 \times 6 =$	$2 \times 4 =$	
e) $5 \times 5 =$	$5 \times 4 =$	
f) $3 \times 7 =$	$3 \times 2 =$	

NEW STRATEGY WITH IMAGING:

Fill in the missing factors.

3) $4 + 12 + 20 = (4 \times 1) + (4 \times 3) + (4 \times 5) = 4 \times 9$

4) $5 + 15 + 30 = (5 \times \dots) + (5 \times \dots) + (5 \times \dots) = 5 \times \dots$

5) $8 + 16 + 32 = (8 \times \dots) + (8 \times \dots) + (8 \times \dots) = 8 \times \dots$

6) $12 + 18 + 36 = (6 \times \dots) + (6 \times \dots) + (6 \times \dots) = 6 \times \dots$

NUMBER PROPERTIES:

Identify common factors to help you answer these addition questions.

7) $12 + 60 + 36 =$

8) $18 + 72 + 36 + 45 =$

9) $35 + 14 + 49 + 21 =$

