1) Add one pair of missing brackets to each of these calculations to make them correct:

$8 \times 6 + 12 = 60$

$81 \div 6 - 3 = 27$

$19 + 14 \times 6 = 198$

$36 - 14 + 9 = 13$

2) Add two pairs of missing brackets to each of these calculations to make them correct:

$13 \times 5 - 2 = 3 \times 15 - 6$

$181 - 27 \div 3 = 17 \times 29 - 19 + 2$

Brackets	B	B	Brackets
Orders	O	I	Indices
Division	D	D	Division
Multiplication	M	M	Multiplication
Addition	A	A	Addition
Subtraction	S	S	Subtraction

1) Adam has carried out the following calculations.

Look carefully at his calculations and describe the errors he has made with the order of operations.

$20 - 4 \times 2 + 16 = 48$

$6 \times (24 \div 3) - 4 = 10$

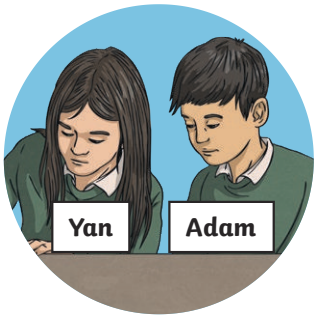
2) a) Yan is solving this word problem. Which of these calculations correctly shows the problem? Explain your reasoning.

A class of 30 children are going on a school trip. The teacher is organising the children into small groups. She decides that each group will be made up of 6 boys and 4 girls.

$30 \div 6 + 4$

$30 \div (6 + 4)$

b) How many groups of children will there be?



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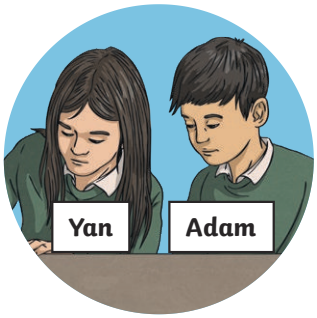

1) Use a number from each of the sets to complete the number calculations:

Set 1	Set 2	Set 3
2, 3, 4	5, 6, 7	8, 9, 10

a) Number from Set 1 ☐ × (Number from Set 2 ☐ + Number from Set 3 ☐) = 30

b) Number from Set 1 ☐ × (Number from Set 2 ☐ + Number from Set 3 ☐) = 42

c) Number from Set 1 ☐ × (Number from Set 2 ☐ + Number from Set 3 ☐) = 56

2) Use a number from each set to find out possible calculations that have an answer between 40 and 60.

Number from Set 1 ☐ × (Number from Set 2 ☐ + Number from Set 3 ☐) = Number between 40 and 60 ☐

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1) $(8 \times 6) + 12 = 60$

$81 \div (6 - 3) = 27$

$(19 + 14) \times 6 = 198$

$36 - (14 + 9) = 13$

2) $13 \times (5 - 2) = (3 \times 15) - 6$

$181 - (27 \div 3) = 17 \times (29 - 19) + 2$

1) Adam has moved from left to right in this calculation, ignoring the order of operations. The correct answer is 28.

Adam has taken 4 away from 6 then added the answer to $24 \div 3$. The correct answer is 44.

2) a) $30 \div (6 + 4)$ is the correct answer.

b) Each group will consist of 10 children (6 boys + 4 girls). We need to divide the total number of children in the class by the number of children in a whole group. This means there will be 3 groups of 10.

1) a) Number from Set 1 × (Number from Set 2 + Number from Set 3) = 30

Accept: $2 \times (5 + 10) = 30$, $2 \times (6 + 9) = 30$ and $2 \times (7 + 8) = 30$

b) Number from Set 1 × (Number from Set 2 + Number from Set 3) = 42

Accept: $3 \times (5 + 9) = 42$ and $3 \times (6 + 8) = 42$

c) Number from Set 1 × (Number from Set 2 + Number from Set 3) = 56

Accept: $4 \times (6 + 8) = 56$ and $4 \times (5 + 9) = 56$

2) Number from Set 1 × (Number from Set 2 + Number from Set 3) = Number between 40 and 60

Multiple answers possible, for example:

$3 \times (6 + 9) = 45$

$4 \times (5 + 8) = 52$

$4 \times (6 + 9) = 60$