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:

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

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

| В | В | Brackets | | |
|---|------------------|----------------|--|--|
| 0 | 1 | Indices | | |
| D | D | Division | | |
| М | М | Multiplication | | |
| Α | Α | Addition | | |
| S | S | Subtraction | | |
| | O D M A | O I D D M M A | | |

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?



 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 | В | В | Brackets | | |
|----------------|---|---|----------------|--|--|
| Orders | 0 | 1 | Indices | | |
| Division | D | D | Division | | |
| Multiplication | М | М | Multiplication | | |
| Addition | Α | A | Addition | | |
| Subtraction | S | S | Subtraction | | |

 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?

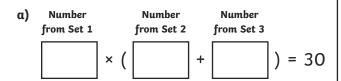


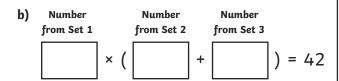


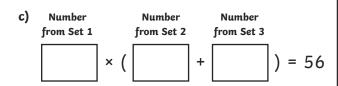
1) Use a number from each of the sets to complete the number calculations:



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







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 | N | lumber between 40 and 60 | |
|----------------------|-----|----------------------|---|----------------------|-----|-----------------------------|--|
| | × (| | + | |) = | | |

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 |

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 | N | umber between 40 and 60 |
|----------------------|-----|----------------------|---|----------------------|-----|----------------------------|
| | × (| | + | |) = | |



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.



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

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

c) Number from Set 1 from Set 2 from Set 3

× (+) +) = 56

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

2) Number Number Number Number between from Set 1 from Set 2 from Set 3 40 and 60

× (+)) =

Multiple answers possible, for example:

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

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

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

