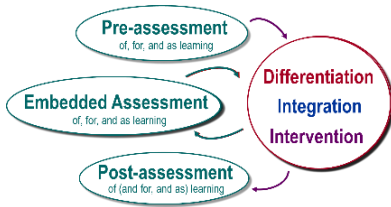


ASSESSMENT



Equivalent Number Sentences Involving Addition and Subtraction to Find Unknown Quantities

Addition and Subtraction 27 Patterns and Algebra 25

This concept integrates Addition and Subtraction and Patterns and Algebra and is taught and investigated separately to the Addition and Subtraction Levels listed below.

The concept is then applied to Addition and Subtraction through these differentiated Levels.

AS 12 PA 7 Equivalent Number Sentences - Equals Sign as Equality



$$3 + 3 = 6$$

$$3 = 6 - 3$$

$$1 + 3 = 2 + 2$$

$$2 + 5 = 10 - 3$$

AS 22 PA 20 Missing and Equivalent Addition and Subtraction Number Sentences



$$\underline{\quad} + \underline{\quad} = \underline{\quad} - \underline{\quad}$$

$$24 + 17 = 45 - ?$$

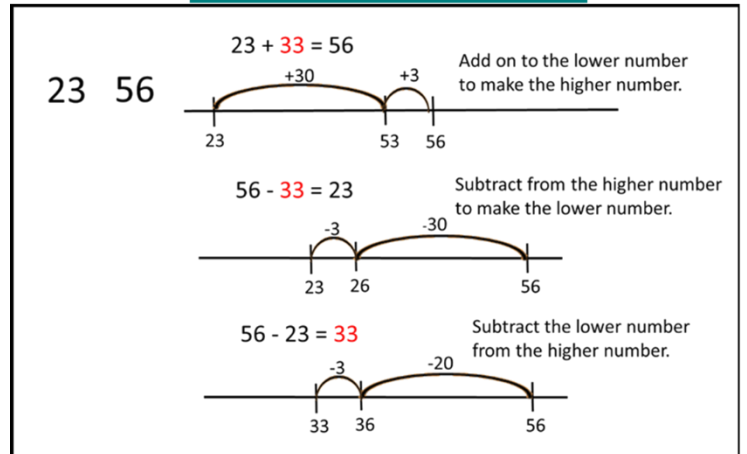
$$\underline{\quad} + \underline{\quad} = \underline{\quad} - \underline{\quad}$$

$$24 + ? = 45 - 1$$

AS 33 PA 32 MD 29 Order of Operations, Grouping Symbols

$$8 + 5 \times 2 = 18 \qquad (8 + 5) \times 2 = 26$$

AS 19 PA 14 Missing Number Sentences - Seeing Difference in 3 Ways



AS 27 PA 25 Equivalent Number Sentences to Find Unknown Quantities

$$\underline{\quad} + 136 = 267 - 84$$

When a number is added to 136, the answer is the same as 267 minus 84.

When a number is subtracted from 87, the answer is the same as 34 plus 19.

$$87 - \underline{\quad} = 34 + 19$$

PRE - ASSESSMENT

1. Select cards to make a number sentence with a missing part.
2. Record the number sentence.
3. Work out the missing part.
4. Explain that each side of the equals sign is equivalent to the other side of the equals sign.

Addition

$$3 + 3 = 6$$

Subtraction

$$3 = 6 - 3$$

Addition and Addition

$$1 + 3 = 2 + 2$$

Addition and Subtraction

$$2 + 5 = 10 - 3$$

Missing and Equivalent

$$\underline{\quad} + \underline{\quad} = \underline{\quad} - \underline{\quad}$$

$$24 + 17 = 45 - ?$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad} - \underline{\quad}$$

$$24 + ? = 45 - 1$$

POST - ASSESSMENT

1. Select cards to make a number sentence with a missing part.
2. Record the number sentence.
3. Work out the missing part.
4. Explain that each side of the equals sign is equivalent to the other side of the equals sign.
5. Record a sentence to describe the equivalent number sentence.

Addition

$$3 + 3 = 6$$

Subtraction

$$3 = 6 - 3$$

Addition and Addition

$$1 + 3 = 2 + 2$$

Addition and Subtraction

$$2 + 5 = 10 - 3$$

Missing and Equivalent

$$\underline{\quad} + \underline{\quad} = \underline{\quad} - \underline{\quad}$$

$$24 + 17 = 45 - ?$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad} - \underline{\quad}$$

$$24 + ? = 45 - 1$$

Record a sentence to describe the equivalent number sentence

$$\underline{\quad} + 136 = 267 - 84$$

When a number is added to 136, the answer is the same as 267 minus 84.

When a number is subtracted from 87, the answer is the same as 34 plus 19.

$$87 - \underline{\quad} = 34 + 19$$