

Lesson 19 **NUMBER****Addition and subtraction word problems: choose the operation**

CURRICULUM ALIGNMENT

NUM.OPS.3

understand and apply flexibly the four operations; and the relationships between operations.

ALG.EXP.3

represent and express problems with known and unknown values in different ways to include the use of appropriate letter-symbols or words.

INTERACTIVES **Word Problem** · challenge, display, explore

WHAT THIS LESSON TEACHES

Read the story and look for clue words. Words like 'altogether', 'in total', 'more join' and 'how many now' tell you to ADD. Words like 'how many more', 'difference' or 'left' tell you to SUBTRACT.

→ '248 members and 137 more join' means $248 + 137 = ?$ because 'more join' joins amounts.

→ 'how many more than Galway did Cork score' means subtract to find the difference.

MODEL THIS ON THE BOARD

ADD OR SUBTRACT? FIND THE CLUE WORD

- 1 A club had **153** fans and then **128** more arrived. How many altogether?
- 2 The two amounts are being put together to make a total, so we add.
- 3 **$153 + 128 = 281$** fans.

$$\begin{array}{r} 153 \\ + 128 \\ \hline 281 \end{array}$$

DISCUSSION STARTER

REFLECT Which clue words helped you decide whether to add or subtract?

ANSWER KEY

a) $176 + 234 = 410$

b) $385 - 297 = 88$

c) $164 + 219 = 383$; $383 - 308 = 75$

Q1: 331

Q2: 414

Q3: 374

Q4: 88

Q5: €100

Spot: The words **more join** mean the groups are combined, so add rather than subtract. $248 + 137 = 385$ members now.

EXTENSION SHEET · STRETCH ANSWERS

S1: 1662

S2: 272

S3: 237

S4: 501

S5: 720

Investigation: Write the story — open-ended; scan pupils' working for valid solution paths rather than a single answer.