

# Learning activities

## Activity 1

Challenge 2

### Objective

- Add and subtract mentally, whole numbers and decimals

### Resources

3 × 0–9 dice (per pair)

### What to do

- Both children should write 0 as their start number.
- They must then take it in turns to roll the dice.
- Using the digits on the dice, they should make a one-digit number to two decimal places.
- They should add the number rolled to the start number.
- The winner is the first player to pass 20.
- If at any time during the game a player's total is a whole number, then they are the winner.

### Variations

Challenge 2

- Children start from 20 and subtract the decimals.

Challenge 3

- Children use four dice and make two-digit numbers to two decimal places.

## Activity 2

Challenge 2

### Objectives

- Add whole numbers with five and six digits using the formal written method
- Use rounding to check answers

### Resources

2 × 0–9 cards (per pair)

### What to do

- Children should shuffle the cards and put them face down in a pile.
- They must turn over the top five/six cards and use the digits to make a five/six-digit number and write it down.
- They must put these cards at the bottom of the pile.
- They should repeat this to make a second five/six-digit number.
- They must then both add the numbers together using the formal written method and check their answers together.

### Variations

Challenge 2

- Children should subtract the lowest number from the highest number.

Challenge 1

- Children should make four-digit numbers.



### Activity 3


#### Objectives

- Subtract whole numbers with five and six digits using the formal written method
- Use rounding to check answers

#### What to do

- Both children should make up a six-digit subtract five-digit calculation and work it out using the formal written method.
- They must then copy the calculation but leave out four of the digits – the digits can be from the calculation or the answer.
- They should give this version to their partner.
- They must both work out their partner's missing numbers then swap back to check answers.

#### Variation

-  • Four of the columns have a lower number as the number being subtracted from.

### Activity 4

#### Objective

- Solve multi-step problems involving number and money, including some multiplication and division, deciding which operations and methods to use and why

#### Resources

Resource 46: Problem writing (per child)

#### What to do

- Ask each child to write down the name of some characters, a setting, and an action.
- They should then swap with their partner.
- Using the information, they should write a two-step word problem.
- They must then swap back and work out the answer to the problem.

#### Variation

-  • Children write one-step problems.

#### Also refer to the games and activities from:

- *Fluency in Number Facts: Y5/Y6* – Addition and subtraction