

Addition and Subtraction

Key Vocabulary	Mental Strategies	
efficient	Use Known Facts	Compensation
inverse	Use Known Facts	Compensation
round	Use Known Facts	Compensation
thousand(s)	Use Known Facts	Compensation
accurate	Use Known Facts	Compensation
approximate	Use Known Facts	Compensation
constant difference	Use Known Facts	Compensation
strategy	Use Known Facts	Compensation
	Look for Patterns	Compensation
	Look for Patterns	Place Value

Addition and Subtraction

Multistep Problems

Using a Bar Model

The sum of two numbers is 25 567.

The difference is 1875.



Subtract 1875 from 25 567 = 23 692.

Halve 23 692 to find smaller number = 11 846.

Add 1875 to find larger number = 13 721.

£20			£20 is used to buy 2 books costing £3.75 and £8.49.
£3.75	£8.49	?	
£12.24			How much change is given?
	£7.76		

$$£3.75 + £8.49 = £12.24$$

$$£20.00 - £12.24 = £7.76$$

Estimate and Approximate

Rounding to Estimate

$$41\,635 + 7386 = 49\,021$$

Round to ten:

$$41\,630 + 7380 = 49\,010$$

$$41\,630 + 7390 = 49\,020$$

$$41\,640 + 7390 = 49\,030$$

Rounding is not as accurate when both numbers are rounded up. A better estimate comes from “rounding” one down and one up.

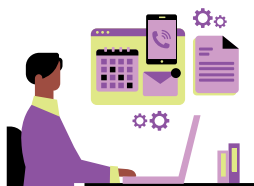
Estimating on a Number Line



The arrow is about $\frac{3}{4}$ of the way across the line so it is 40 000.

What careers might this help with?

Financial Assistant



A financial assistant helps organise and manage money-related information for a company or organisation. They make sure financial records are accurate, up to date and stored safely so they can be easily found when needed. They may record payments, check invoices, update spreadsheets and help keep track of money coming in and going out. They may also help prepare financial reports, organise receipts and support other team members with budgeting and financial information.

Market Analyst



A market analyst helps a company or organisation understand what customers want and what is happening in the market. They collect and study information about customers, products, prices and competitors to spot patterns and trends. They may use surveys, sales figures and other data to help them understand which products are popular and why. They also create reports and share their findings to help businesses make decisions about what to sell, how to advertise and how to plan for the future.

Quantity Surveyor



A quantity surveyor helps manage the costs of building and construction projects. They work out how much materials, labour and equipment are likely to cost and help make sure a project stays within its budget. They may prepare estimates, check prices, keep track of spending and make sure contractors are paid correctly. They also work with builders, architects and other professionals to help projects be completed safely, efficiently and at the right cost.