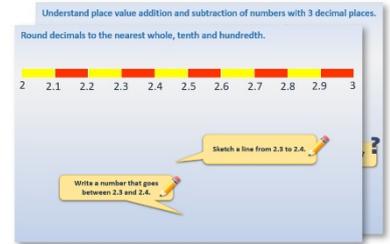


# Week 9, Day 2

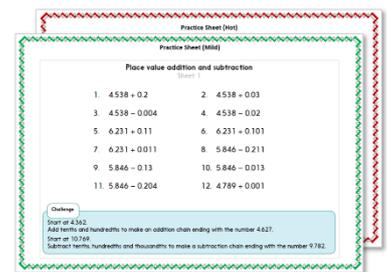
## Use column addition to add amounts of money

Each day covers one maths topic. It should take you about 1 hour or just a little more.

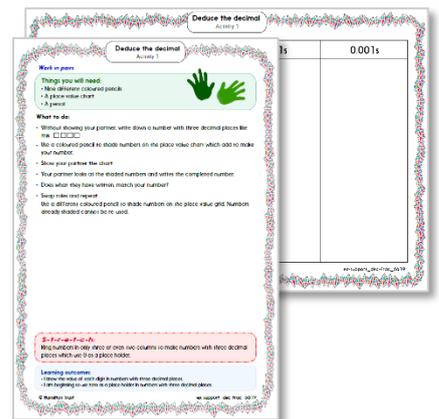
1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



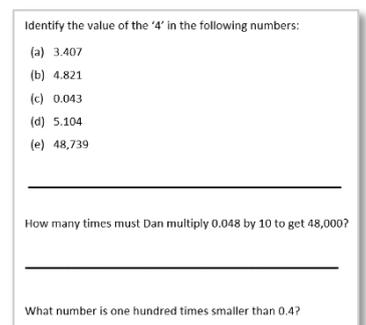
2. Tackle the questions on the **Practice Sheet**. There might be a choice of either **Mild** (easier) or **Hot** (harder)! Check the answers.



3. Finding it tricky? That's OK... have a go with a grown-up at **A Bit Stuck?**



4. Have I mastered the topic? A few questions to **Check your understanding**. Fold the page to hide the answers!



## Learning Reminders

Use compact addition to add amounts of money.

$$\begin{array}{r} \text{£ } 3.55 \\ + \text{£ } 2.76 \\ \hline 11 \\ \hline \text{£ } 6.31 \end{array}$$

Look how this addition was done, thinking through each stage.

Can you see how the 5p and 6p were added to make 11p, a 1 written under the pennies and the one 10p written under the 10p column waiting to be added to the other 10ps?

Then 50p, 70p and 10p were added to make £1.30, the 3 written under the 10ps and the £1 under the pounds to be added to the £3 and £2.

## Learning Reminders

Use compact addition to add amounts of money.

£4.79

£5.49

£5.25

£4.65

£4.29

These are the prices of some books. You've been given £10 to spend for your birthday; you like all of these books, which two can you buy? Any other pair?

Work to find *all* possibilities.

£4.65 + £4.29 = £8.94  
£5.25 + £4.29 = £9.54  
£5.25 + £4.65 = £9.90  
£5.49 + £4.29 = £9.78  
£4.79 + £4.29 = £9.08  
£4.79 + £4.65 = £9.44

## Practice Sheet Mild

### Adding amounts of money

$£4.25 + £3.69$

Complete the expanded addition and then the compact addition at the side.

	£4	20p	5p
+	£3	60p	9p
		10p	
	£7	90p	4p

The total is \_\_\_\_\_

	£4.25
+	£3.69
	_____
	£

$£5.75 + £2.63$

Complete the expanded addition and then the compact addition at the side.

	£5	70p	5p
+	£2	60p	3p
	£1		
	£8	30p	8p

The total is \_\_\_\_\_

	£5.75
+	£2.63
	_____
	£

Draw two sets and label them 'More than £10' and 'Less than £10'.

Estimate the totals and write these additions in the correct set.

Then choose two from each set to solve.

$£7.25 + £2.49$

$£6.49 + £4.25$

$£8.85 + £1.30$

$£6.49 + £3.65$

$£5.35 + £4.59$

$£4.89 + £4.79$

## Practice Sheet Hot

### Adding amounts of money

Estimate the total to the nearest pound and then use compact column addition to find the total for each addition.

$$£4.25 + £3.69$$

$$£5.75 + £2.63$$

$$£6.69 + £1.35$$

$$£5.75 + £3.89$$

$$£4.68 + £3.55$$

$$£9.25 + £3.32$$

$$£8.29 + £7.35$$

$$£6.79 + £5.25$$

Draw two sets and label them 'More than £10' and 'Less than £10'.  
Estimate the totals and write these additions in the correct set.  
Then choose two from each set to solve.

$$£7.25 + £2.49$$

$$£6.49 + £4.25$$

$$£8.85 + £1.30$$

$$£6.49 + £3.65$$

$$£5.35 + £4.59$$

$$£4.89 + £4.79$$

## Practice Sheets Answers

### Adding amounts of money (mild)

$$£4.25 + £3.69 = £7.94$$

$$£5.75 + £2.63 = £8.38$$

#### More than £10

$$£6.49 + £4.25 (£10.74)$$

$$£8.85 + £1.30 (£10.15)$$

$$£6.49 + £3.65 (£10.14)$$

#### Less than £10

$$£7.25 + £2.49 (£9.74)$$

$$£5.35 + £4.59 (£9.94)$$

$$£4.89 + £4.79 (£9.68)$$

### Adding amounts of money (hot)

$$£4.25 + £3.69 = £7.94$$

$$£5.75 + £3.89 = £9.64$$

$$£4.68 + £3.55 = £8.23$$

$$£6.79 + £5.25 = £12.04$$

$$£5.75 + £2.63 = £8.38$$

$$£9.25 + £3.32 = £12.57$$

$$£6.69 + £1.35 = £8.04$$

$$£8.29 + £7.35 = £15.64$$

#### More than £10

$$£6.49 + £4.25 (£10.74)$$

$$£8.85 + £1.30 (£10.15)$$

$$£6.49 + £3.65 (£10.14)$$

#### Less than £10

$$£7.25 + £2.49 (£9.74)$$

$$£5.35 + £4.59 (£9.94)$$

$$£4.89 + £4.79 (£9.68)$$

## A Bit Stuck? Beach shop

### You will need:

- £1, 10p and 1p coins – or make them out of card circles

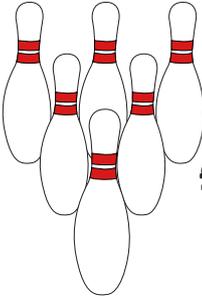
### Beach Shop



£1.82



£3.43



£4.75



£5.82



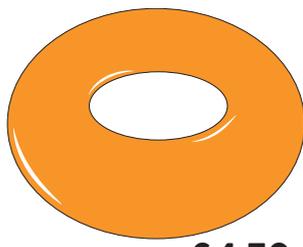
£8.50



£2.25



£7.45



£4.70

- Choose two items.
- Make each price using £1, 10p and 1p coins. Place them in the money place value grid. e.g. beach ball and bucket:

£1 coins	10p coins	1p coins
 	 	 

- Add the pennies. If they add to more than 10p, swap ten pennies and put a 10p in the 10ps column. Leave any reminding pennies in the 1s column.
- Add the 10p coins. If there are more than ten, swap ten 10p coins for a £1 coin and place the £1 in the £s column. Leave any remaining 10p coins in the 10p column.
- Now add the pounds. How much do you have altogether?

Repeat with other pairs of items.

# A Bit Stuck?

## Beach shop

£1 coins	10p coins	1p coins

## Check your understanding

### Questions

Complete these using column addition:

- i. £3.67 + £2.72
  - ii. £5.48 + £2.37
  - iii. £4.79 + £2.58 + £3.82
  - iv. £6.29 + £5.75
- 

Write the missing numbers in this calculation:

$$£10.64 = £4.8\Box + £\Box.\Box7$$

*Fold here to hide answers*

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## Check your understanding

### Answers

Complete these using column addition:

- i. £3.67 + £2.72 **£6.39**
- ii. £5.48 + £2.37 **£7.85**
- iii. £4.79 + £2.58 + £3.82 **£11.19**
- iv. £6.29 + £5.75 **£12.04**

Errors may be due to a) children not setting questions out neatly in columns b) arithmetical mistakes in adding single digits or c) forgetting or misunderstanding digits moved between columns. Also check that children are estimating answers before doing the calculations.

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Write the missing numbers in this calculation:

$$£10.64 = £4.8\mathbf{7} + £\mathbf{5.77}$$