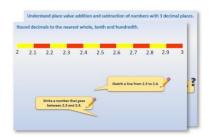
# Year 4: Week 2, Day 2

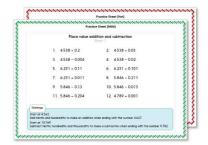
# **Adding money**

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

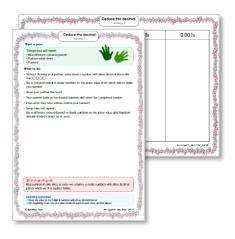
1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



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

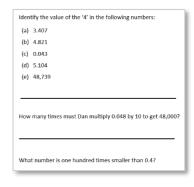


3. Finding it tricky? That's OK... have a go with a grown-up at A Bit Stuck?



4. Have I mastered the topic? A few questions to **Check your understanding**.

Fold the page to hide the answers!



## **Learning Reminders**



We can use expanded addition to add £3.24 and £2.58.

Partition the amounts into £s, 10ps and 1ps. Line the columns up neatly and don't forget a blank 'waiting line' under the second number. £3 20p 4p + £2 50p 8p 10p £5 80p 2p

£5 + 80p + 2p = £5.82

Add the 1ps. 4p + 8p = 12p.

We put 10p under the 10ps in the waiting line and 2p under the 1ps in the answer line.

Next add the 10ps.

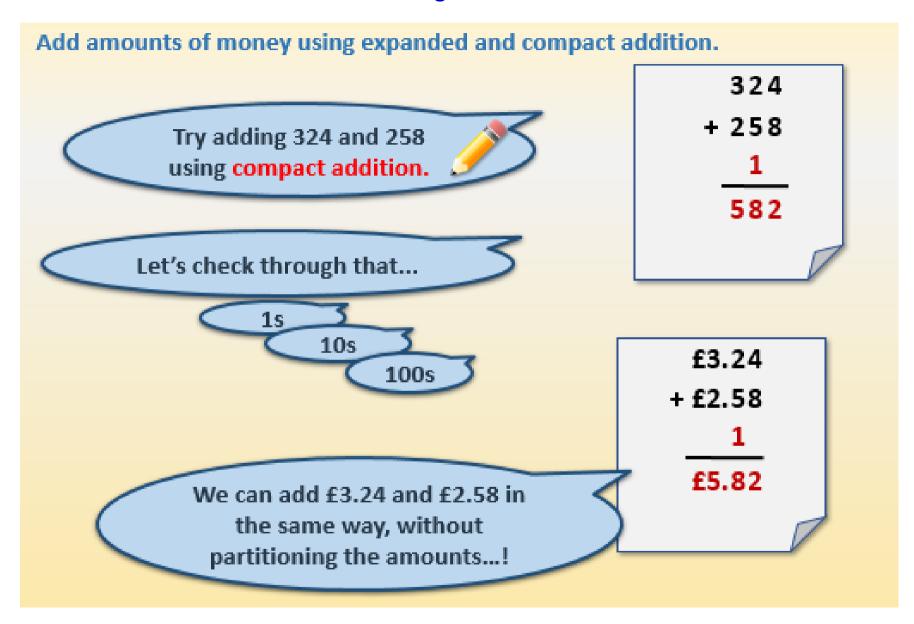
20p + 50p + 10p = ?

Then the £s.

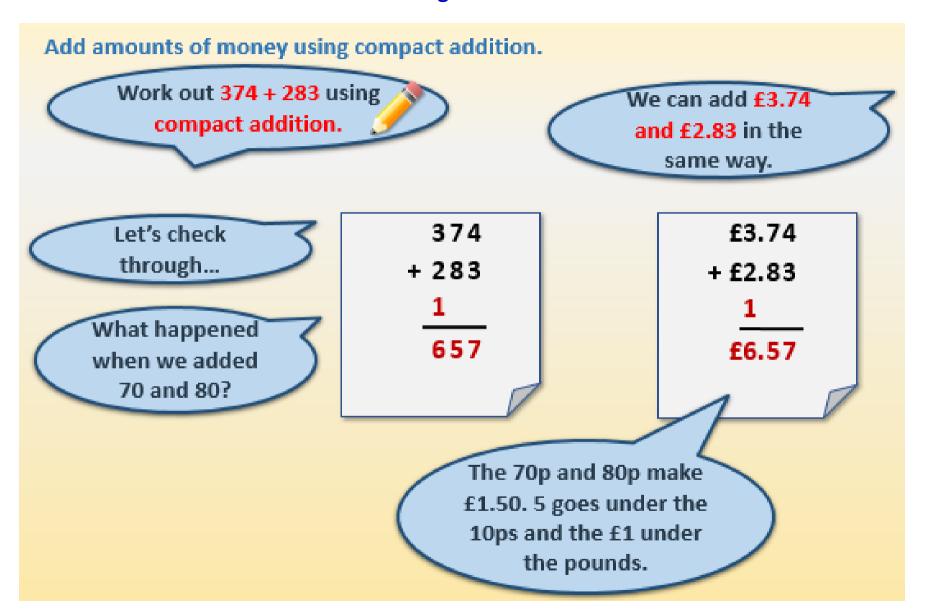
£3 + £2 = ?

Finally recombine the pounds and pence.

# **Learning Reminders**



## **Learning Reminders**



# Practice Sheet Mild Missing number additions

# Fill in the missing numbers:

3. 
$$£1.00 20p$$
 +  $£3.00 20p$ 

£4.00	7р

#### Challenge

Choose three amounts and add them. Repeat this twice.

What is the largest total possible? And the smallest? How close can you get to £90?

£14.76 £27.76 £56.92 £25.38 £30.55

# Practice Sheet (hot)

# Adding money

### Part 1

Use expanded or compact addition to answer these additions:

452 + 583	£4.52 + £5.83
465 + 387	£4.65 + £3.87
368 + 457	£3.68 + £4.57

### Part 2

Use expanded addition and then compact addition to answer these additions:

£6.54 + £3.65 £2.81 + £6.65 £5.48 + £4.78

#### Part 3

Use compact addition to answer these additions:

£4.75 + £1.82 + £2.37 £7.42 + £7.56 + £8.54 £8.57 + £6.79 + £1.65

## Challenge

Write 2 amounts that add to exactly £12.34.

**BUT** the 1ps must add to more than 10p and the 10ps must add to more than £1.

## Further challenge

Write three amounts that add to exactly £12.34 – same rules as above!

## **Practice Sheet Answers**

## Missing number additions (mild)

(for some other correct answers are possible, these are examples)

## Challenge

## Adding money (hot)

#### Part 1

#### Part 2

$$£6.54 + £3.65 = £10.19$$
  
 $£2.81 + £6.65 = £9.46$   
 $£5.48 + £4.78 = £10.26$ 

#### Part 3

$$£4.75 + £1.82 + £2.37 = £8.94$$
  
 $£7.42 + £7.56 + £8.54 = £23.52$   
 $£8.57 + £6.79 + £1.65 = £17.01$ 

#### Challenge

These are examples, other correct answers are possible. Check addition adds up to £12.34.

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# A Bit Stuck? Pocket money

#### Work in pairs

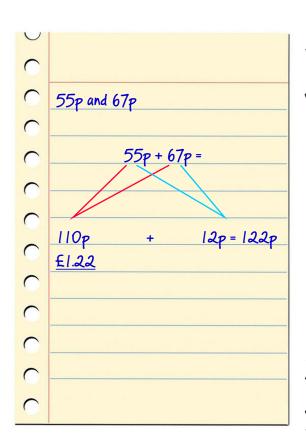
## Things you will need:

- 10p and 1p coins
- A pencil



#### What to do:

- Take it in turns to choose two items from the website page.
- Find the total. You can use 10p and 1p coins, or draw a jotting to help you.
- · Write the total cost in pounds.
- Score 10 points if the total is more than £1.50.



#### S-t-r-e-t-c-h:

Choose three items and find the total cost.

#### Learning outcomes:

- $\cdot$  I can add pairs of 2-digit prices, using partitioning (answer greater than £1).
- · I can write amounts between 100p and 200p in pounds.
- · I am beginning to add three 2-digit prices.

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Toys

## **Pocket Money**

Have fun spending your pocket money here - find a great range of toys and accessories at affordable prices.



Multi-coloured bubbles **55p** 

Add to basket



Fast spin yo-yo

67p

Add to basket



Mini pan pipes

**72**p

Add to basket



Stretchy dog

85p

Add to basket



Windmill

58p

Add to basket



Mini pencil pack **63p** 

Add to basket



Sheriff's badge **76p** 

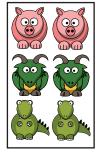
Add to basket



Tiger note pad

92p

Add to basket



Stickers

88p

Add to basket



Colouring book

96p

Add to basket

# Check your understanding Questions

Complete these additions using expanded column addition.

I. 
$$£5.78 + £4.22$$

II. 
$$£2.56 + £7.44$$

III. 
$$£3.17 + £6.83$$

Did you notice a pattern?

Can you write two more additions like this?

Is a column addition calculation the most efficient way to find:

Write the missing numbers in this calculation:

4	 5
 _ +	<u> </u>

If £3.47 is subtracted from a number to leave £3.85, what was the number?

# Check your understanding Answers

Complete these additions using expanded column addition.

- (i) £5.78 + £4.22 = £10.
- (ii) £2.56 + £7.44 = £10
- (iii) £3.17 + £6.83 = £10

Did you notice a pattern? All three additions total £10.

Can you write two more additions like this? Check children's examples. Can they articulate that the 1ps column always adds to 10p, the 10ps add to 90p and the £1s add to £9 (before moving amounts across columns)?

Is a column addition calculation the most efficient way to find:

£4.99 + £7.46 = £12.45. Add £5 to £7.46 and subtract 1p.

£8.06 + £8.06 = £16.12. Double each of the £s and ps.

£4.31 + £5.69 = £10. 31 and 69 are complements to 100, add that (as £1) to £4 and £5.

Write the missing numbers in this calculation:

Note the 1s in the waiting line

If £3.47 is subtracted from a number to leave £3.85, what was the number? £7.32. Watch for children who have subtracted £3.47 from £3.85 (38p) - a bar model can help clarify that the answer is found by adding the 2 amounts:

?		
£3.47	£3.85	