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?

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



Identify the value of the '4' in the following numbers:
(a) 3.407
(b) 4.821
(c) 0.043
(d) 5.104
(e) 48,739
How many times must Dan multiply 0.048 by 10 to get 48,000?
What number is one hundred times smaller than 0.4?



6.231 + 0.10

8 5.846 - 0.211

10, 5.846 - 0.013

12. 4.789 + 0.00

6.231 + 0.11

6231+0011

5.846 - 0.13

11. 5.846 - 0.204



Learning Reminders



Learning Reminders



Learning Reminders





Practice Sheet (hot) Adding money

Part 1

Use expanded or compact addition to answer these additions: 452 + 583 $\pounds 4.52 + \pounds 5.83$ 465 + 387 $\pounds 4.65 + \pounds 3.87$ 368 + 457 $\pounds 3.68 + \pounds 4.57$

Part 2

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

 $\pounds 6.54 + \pounds 3.65$ $\pounds 2.81 + \pounds 6.65$ $\pounds 5.48 + \pounds 4.78$

Part 3

Use compact addition to answer these additions: $\pounds 4.75 + \pounds 1.82 + \pounds 2.37$ $\pounds 7.42 + \pounds 7.56 + \pounds 8.54$ $\pounds 8.57 + \pounds 6.79 + \pounds 1.65$

Challenge

Write 2 amounts that add to exactly $\pounds 12.34$. **BUT** the 1ps must add to more than 10p and the 10ps must add to more than $\pounds 1$.

Further challenge

Write three amounts that add to exactly $\pounds 12.34$ – same rules as above!

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Practice Sheet Answers

Missing number additions (mild)

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

1.	£1.00 20p 4p +£2.00 30p 4p	2.	£3.00 10p + £2.00 10p	5p 1p	3.	£1.00 20p +£3.00 20p	4р Зр
	£3.00 <mark>50p</mark> 8p	- ·	£5.00 20p	6p		£4.00 40p	7p
4.	£3.00 20p 9p + £1.00 50p 2p 10p	5.	f3.82 + f2.46 <u>1</u>		6.	£4.37 + £2.28 <u>1</u>	
7.	£4.00 80p 1p £3.95 + £2.41 1	8.	£6.28 £4.18 + £3.26 1		9.	£6.65 £4.21 + £1.94 1	
	£6.3 <mark>6</mark>		£7. <mark>4</mark> 4			£6.1 <mark>5</mark>	

Challenge

£56.92 + £30.55 + £27.76 = £115.23 (largest) £14.76 + £25.38 + £27.76 = £67.90 (smallest) Closest total to £90 is £83.69 (£27.76 + £25.38 + £30.55)

Adding money (hot)

Part 1

452 + 583 = <mark>1035</mark>	$\pounds4.52 + \pounds5.83 = \pounds10.35$
465 + 387 = <mark>852</mark>	$\pounds4.65 + \pounds3.87 = \pounds8.52$
368 + 457 = <mark>825</mark>	£3.68 + £4.57 = £8.25

Part 2

 $f_{6.54} + f_{3.65} = f_{10.19}$ $f_{2.81} + f_{6.65} = f_{9.46}$ $f_{5.48} + f_{4.78} = f_{10.26}$

Part 3

f4.75 + f1.82 + f2.37 = f8.94f7.42 + f7.56 + f8.54 = f23.52f8.57 + f6.79 + f1.65 = f17.01

Challenge

f1.66 + f10.68 = f12.34f1.77 + f10.57 = f12.34f1.88 + f10.46 = f12.34f1.99 + f10.35 = f12.34f1.67 + f10.67 = f12.34f1.68 + f10.66 = f12.34f1.69 + f10.65 = f12.34f1.78 + f10.56 = f12.34f1.79 + f10.55 = f12.34These are examples, other correct answers are possible. Check addition adds up tof12.34.

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 \pounds 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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Pocket Money

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



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:

£	10p	1р
4		7
+ 5	6	
	4	5

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) $\pm 5.78 + \pm 4.22 = \pm 10$.

(ii) $\pm 2.56 \pm \pm 7.44 = \pm 10$

(iii) $\pm 3.17 \pm 6.83 = \pm 10$

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.

 \pounds 8.06 + \pounds 8.06 = \pounds 16.12. Double each of the \pounds 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:



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		