

Yr 3 Place Value and Money Unit 2 (3137)

Additional teacher instructions for practice sheets

These notes indicate which practice sheets are most appropriate for which groups.

Day 1 Place value additions Sheet 1

Children Working towards ARE use arrow cards or place value equipment to help them.

Children Working at ARE complete the sheet.

Children working at Greater Depth must have a go at the challenge.

Day 2 Place value subtractions Sheet 1

Children Working towards ARE use arrow cards or place value equipment to help them and only do numbers 1 and 2.

Children Working at ARE complete the sheet and the first part of the challenge if time.

Children working at Greater Depth must have a go at the challenge.

Day 3 Adding 1, 10 or 100 Sheet 1

Children Working towards ARE use arrow cards or place value equipment to help them and only do odd numbers.

Children Working at ARE complete the sheet and the first part of the challenge if time.

Children working at Greater Depth must have a go at the challenge.

Day 4 Adding or subtracting 1, 10 or 100 Sheet 1

Children Working towards ARE use arrow cards or place value equipment to help them and only do the first six.

Children working at ARE complete the sheet

Children working at Greater Depth must have a go at the challenge.

Place value additions

Sheet 1

1) $300 + 70 + 6 =$

2) $400 + 90 + 3 =$

3) $700 + 5 =$

4) $500 + 30 =$

5) $600 + 32 =$

6) $804 + 50 =$

7) $909 + 90 =$

8) $200 +$ $+ 4 = 234$

9) $400 + 10 +$ $= 417$

10) $+ 40 + 3 = 243$

11) $200 +$ $= 270$

12) $400 +$ $= 408$

13) $500 +$ $+ 3 = 513$

14) $700 + 30 +$ $= 734$

Challenge

Fred started with a number. He added 60 and then 6. He ended with 555. What was his starting number?
Now make up a puzzle like this for your partner to solve.

Place value subtractions

Sheet 1

1. Change the "3" into "0" in each of these numbers by writing a subtraction. The first one is done for you.

563

438

243

993

130

346

$$563 - 3 = 560$$

2. Change the "9" into "0" in each of these numbers by writing a subtraction.

196

449

590

239

905

Write a place value subtraction starting with 482 to get each answer.

480

402

400

82

Challenge

Write 3-digit numbers where...

- * Subtracting a number less than 10 gives a multiple of 100
- * Subtracting a number more than 90 gives a multiple of 100
- * Subtracting a number greater than 500 gives a 2-digit number
- * Subtracting 99 gives a 2-digit number

Make up some more puzzles like these for your partner to try.

Adding 1, 10 or 100

Sheet 1

1) $465 + 10 =$

2) $572 + 10 =$

3) $814 + 10 =$

4) $402 + 20 =$

5) $261 + 100 =$

6) $739 + 1 =$

7) $332 + 1 =$

8) $399 + 1 =$

9) $628 + 100 =$

10) $865 + 20 =$

11) $904 + 40 =$

12) $698 + 10 =$

13) $699 + 1 =$

14) $790 + 10 =$

15) $517 + 10 =$

Challenge

How many times can I add 110 to 209 before I get over 1000?

What 3-digit number should I start with to enable me to add 111 eight times and get 998?

Adding or subtracting 1, 10 or 100

Sheet 1

1) $457 + \boxed{} = 458$

2) $239 + \boxed{} = 249$

3) $562 + \boxed{} = 662$

4) $429 + \boxed{} = 439$

5) $863 + \boxed{} = 963$

6) $299 + \boxed{} = 300$

7) $392 + \boxed{} = 402$

8) $673 + \boxed{} = 684$

9) $591 + \boxed{} = 601$

10) $735 + \boxed{} = 845$

11) $595 - \boxed{} = 584$

12) $761 - \boxed{} = 651$

13) $483 - \boxed{} = 382$

14) $705 - \boxed{} = 695$

Challenge

Try four different 3-digit numbers in this chain.

$$\boxed{} + 10 - 100 + 1 - 10 + 100 = \boxed{}$$

Now write the start number and the answer without using the chain.
Explain what is happening.

Place value and money

Answers

Day 1 Place value additions Sheet 1

- | | |
|--------|---------|
| 1) 376 | 8) 30 |
| 2) 493 | 9) 7 |
| 3) 705 | 10) 200 |
| 4) 530 | 11) 70 |
| 5) 632 | 12) 8 |
| 6) 854 | 13) 10 |
| 7) 999 | 14) 4 |

Challenge

489

Day 2 Place value subtractions Sheet 1

- 1)
- | | | | | |
|------------------|-----------------|-----------------|------------------|------------------|
| $438 - 30 = 408$ | $243 - 3 = 240$ | $993 - 3 = 990$ | $130 - 30 = 100$ | $346 - 300 = 46$ |
|------------------|-----------------|-----------------|------------------|------------------|
- 2)
- | | | | | |
|------------------|------------------|------------------|------------------|-----------------|
| $196 - 90 = 106$ | $449 - 9 = 440$ | $590 - 90 = 500$ | $239 - 9 = 230$ | $905 - 900 = 5$ |
| $482 - 2 = 480$ | $482 - 80 = 402$ | $482 - 82 = 400$ | $482 - 400 = 82$ | |

Challenge

Accept any calculation where 0 to 9 has been subtracted to give a multiple of 100,
e.g. $103 - 3 = 100$ $206 - 6 = 200$ $409 - 9 = 400$

Accept any calculation where more than 90 has been subtracted to give a multiple of 100,

e.g. $193 - 93 = 100$ $206 - 106 = 100$ $499 - 99 = 400$

Accept any calculation where more than 500 has been subtracted to give a 2-digit number,

e.g. $793 - 710 = 83$ $527 - 501 = 26$ $999 - 980 = 19$

Accept any calculation where subtracting 99 gives a 2-digit number,

e.g. $109 - 99 = 10$ $149 - 99 = 50$ $161 - 99 = 62$

Place value and money

Answers

Day 3 Adding 1, 10 or 100 Sheet 1

$$1) 465 + 10 = 475$$

$$2) 572 + 10 = 582$$

$$3) 814 + 10 = 824$$

$$4) 402 + 20 = 422$$

$$5) 261 + 100 = 361$$

$$6) 739 + 1 = 740$$

$$7) 332 + 1 = 333$$

$$8) 399 + 1 = 400$$

$$9) 628 + 100 = 728$$

$$10) 865 + 20 = 885$$

$$11) 904 + 40 = 944$$

$$12) 698 + 10 = 708$$

$$13) 699 + 1 = 700$$

$$14) 790 + 10 = 800$$

$$15) 517 + 10 = 527$$

Challenge

You can add 110 seven times before you go over 1000.
Start with 110 to add 111 eight times to make 998.

Day 4 Adding or subtracting 1, 10 or 100 Sheet 1

$$1) 1$$

$$8) 10$$

$$2) 10$$

$$9) 10$$

$$3) 100$$

$$10) 110$$

$$4) 10$$

$$11) 11$$

$$5) 100$$

$$12) 110$$

$$6) 1$$

$$13) 101$$

$$7) 10$$

$$14) 10$$

Challenge

The start number has 1 added to it as the adding and subtracting 10 and 100 cancel out.