Varied Fluency
Step 5: 3-Digit Numbers and Tens

National Curriculum Objectives:

Mathematics Year 3: (3C1) Add and subtract numbers mentally including three-digit number and tens

Differentiation:

Developing Questions to support adding and subtracting multiples of ten, up to 90, to and from a 3-digit number with no exchanging. Using Base 10 and numerals only. Pictorial support for all questions.

Expected Questions to support adding and subtracting multiples of ten, up to 90, to and from a 3-digit number with no exchanging. Using a variety of pictorial representations, numerals and words.

Greater Depth Questions to support adding and subtracting multiples of ten, up to 90, to and from a 3-digit number with no exchanging. Using numerals, words and mixed pictorial representations within a number.

More Year 3 Addition and Subtraction resources.

Did you like this resource? Don't forget to review it on our website.

3-Digit Numbers and Tens

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1a. Complete the calculations.
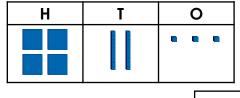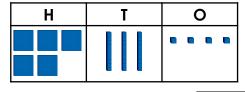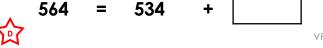
A.

B.

VF

1b. Complete the calculations.

A.

B.

VF

2a. Fill in the missing numbers.

H	T	O

$423 + 30 = \boxed{}$

$423 + \boxed{} = 473$

$463 = 423 + \boxed{}$

$\boxed{} = 423 + 20$

VF

2b. Fill in the missing numbers.

H	T	O

$534 + 10 = \boxed{}$

$534 + \boxed{} = 594$

$\boxed{} = 534 + 40$

$564 = 534 + \boxed{}$

VF

3a. Count in tens to solve the calculation.

10	20	30	40	50	60	70	80	90	100

Write a list of the numbers you counted.

$$\begin{array}{r} 6\ 3\ 7 \\ +\quad 3\ 0 \\ \hline \\ \hline \end{array}$$

VF

3b. Count in tens to solve the calculation.

10	20	30	40	50	60	70	80	90	100

Write a list of the numbers you counted.

$$\begin{array}{r} 7\ 5\ 6 \\ +\quad 4\ 0 \\ \hline \\ \hline \end{array}$$

VF

4a. Match the equations to the correct answers to find the odd one out.

10	20	30	40	50	60	70	80	90	100

| 356 + 10 | | 356 + 20 |

| 366 | 356 + 30 | 396 |

| 386 | 376 |

VF

4b. Match the equations to the correct answers to find the odd one out.

10	20	30	40	50	60	70	80	90	100

| 248 + 40 | | 248 + 30 |

| 298 | 248 + 50 | 278 |

| 268 | 288 |

VF

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3-Digit Numbers and Tens

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5a. Complete the calculations.

A.

100 100 10 1 1 1 **+** 10 10
100   1 1   10 10 **=**

B.

200 30 4 **−** 20 **=**

⭐ E   VF

5b. Complete the calculations.

A.

100 50 3 **−** 40 **=**

B.

100 100 10 1   10 10
100   10 1 **+**   10 **=**

⭐ E   VF

6a. Fill in the missing numbers.

H	T	O
5	4	6

546 + 4 tens = [ ]

546 + [ ] = 566

546 − [ ] = 516

506 = 546 − [ ]

⭐ E   VF

6b. Fill in the missing numbers.

H	T	O
4	6	2

462 + 3 tens = [ ]

462 + [ ] = 472

462 − [ ] = 442

412 = 462 − [ ]

⭐ E   VF

7a. Count in tens to solve the calculation.

Write a list of the numbers you counted.

```
    7 2 8
+     7 0
─────────
```

⭐ E   VF

7b. Count in tens to solve the calculation.

Write a list of the numbers you counted.

```
    8 7 5
−     5 0
─────────
```

⭐ E   VF

8a. Match the equations to the correct answers to find the odd one out.

431 + 50   481 − 60

451   411 + 40   471

421   481

⭐ E   VF

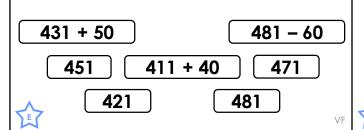**8b.** Match the equations to the correct answers to find the odd one out.

629 − 20   649 − 10

609   609 + 40   619

649   639

⭐ E   VF

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Varied Fluency – 3-Digit Numbers and Tens – Year 3 Expected

3-Digit Numbers and Tens

9a. Complete the calculations.

A.

100 100 100
100 100 | 2 0 2 + 10 10 =

B.

9 0 0 | 10 10 10 1 1 1 1 − 2 0 =

VF

9b. Complete the calculations.

A.

100 100 100
100 100 | 4 0 3 − 3 0 =

B.

2 0 0 | 10 10 1 10 10 1 + 10 10 10 =

VF

10a. Fill in the missing numbers.

H	T	O
three	five	one

$351 + 2 \text{ tens} = \boxed{}$

$351 - \boxed{} = 311$

$\boxed{} = 351 + 40$

$301 = 351 - \boxed{}$

VF

10b. Fill in the missing numbers.

H	T	O
four	six	three

$463 - 4 \text{ tens} = \boxed{}$

$463 + \boxed{} = 483$

$\boxed{} = 463 - 60$

$493 = 463 + \boxed{}$

VF

11a. Count in tens to solve the calculation.

> seven hundred and ninety-eight subtract eighty

Write a list of the numbers you counted.

VF

11b. Count in tens to solve the calculation.

> two hundred and four add ninety

Write a list of the numbers you counted.

VF

12a. Match the equations to the correct answers to find the odd one out.

459 + 20   479 − 30

459   499 − 40   469

449   479

VF

12b. Match the equations to the correct answers to find the odd one out.

316 + 50   366 − 40

326   376 − 60   316

366   346

VF

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Varied Fluency – 3-Digit Numbers and Tens – Year 3 Greater Depth

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Developing

1a. A. 143 + 40 = 183; B. 252 – 20 = 232

2a. 453; 50; 40; 443

3a. 647; 657; <u>667</u>

4a. 356 + 10 = 366; 356 + 20 = 376; 356 + 30 = 386

396 is the odd one out.

Developing

1b. A. 334 – 20 = 314; B. 135 + 50 = 185

2b. 544; 60; 574; 30

3b. 766; 776; 786; <u>796</u>

4b. 248 + 40 = 288; 248 + 30 = 278; 248 + 50 = 298

268 is the odd one out.

Expected

5a. A. 315 + 40 = 355; B. 234 – 20 = 214

6a. 586; 20; 30; 40

7a. 738; 748; 758; 768; 778; 788; <u>798</u>

8a. 431 + 50 = 481; 481 – 60 = 421; 411 + 40 = 451

471 is the odd one out.

Expected

5b. A. 153 – 40 = 113; B. 322 + 30 = 352

6b. 492; 10; 20; 50

7b. 865; 855; 845; 835; <u>825</u>

8b. 629 – 20 = 609; 649 – 10 = 639; 609 + 40 = 649

619 is the odd one out.

Greater Depth

9a. A. 522 + 20 = 542; B. 934 – 20 = 914

10a. 371; 40; 391; 50

11a. 788; 778; 768; 758; 748; 738; 728; <u>718</u>

12a. 459 + 20 = 479; 479 – 30 = 449; 499 – 40 = 459

469 is the odd one out.

Greater Depth

9b. A. 543 – 30 = 513; B. 242 + 30 = 272

10b. 423; 20; 403; 30

11b. 214; 224; 234; 244; 254; 264; 274; 284; <u>294</u>

12b. 316 + 50 = 366; 366 – 40 = 326; 376 – 60 = 316

346 is the odd one out.

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