

Yr 3 Multiplication and division Unit 1 (3863)

Additional teacher instructions for practice sheets

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

Day 1 Count in steps of 100 Sheet 1

Working towards ARE

Day 1 Count in steps of 100 and 50 Sheet 2

Working at ARE / Greater Depth

Day 2 Missing numbers Sheet 1

Working towards ARE / Working at ARE / Greater Depth

Working towards ARE can use a number grid to help them write their answers.

Greater Depth should complete the Challenge.

Day 3 What's the pattern? Sheet 1

Working towards ARE

Day 3 What's the pattern? Sheet 2

Working at ARE / Greater Depth

Count in steps of 100

Sheet 1

Fill in the missing numbers.

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| 110 | 120 | 130 | 140 | 150 | 160 | 170 | | | 200 |
| 210 | 220 | 230 | 240 | | 260 | 270 | | 290 | |
| 310 | 320 | 330 | 340 | | | 370 | | | |
| | | | 440 | | | 470 | 480 | | |
| 510 | | 530 | 540 | | | 570 | | | 600 |
| 610 | | 630 | 640 | | 660 | 670 | | 690 | 700 |
| | | 730 | 740 | | | 770 | | | 800 |
| | | 830 | 840 | | | 870 | | | 900 |
| 910 | 920 | 930 | 940 | 950 | | 970 | 980 | | 1000 |

Count in steps of 100 and 50

Sheet 2

Write the missing numbers in these sequences:

48, 148, , , 448, , , 748, , , 1048

3, 103, , , , , 603, , , , 1003

28, , 228, , , , , 728, , 928,

1010, 910, , , 610, , , , 210, ,

50, 100, 150, , , , 350, , , , 550

7, 57, 107, , , , 307, , , 457

35, 85, , , 235, , , 385, , ,

94, , 194, 244, , , 394, , , 544,

Challenge

Now make up your own counting in 50 sequences.

Missing numbers

Sheet 1

Copy these sequences and fill in the missing numbers.

4, 8, , 16, , , 28, 32, , 40, , , 52, , , 64, 68,
, , , 84, 88, , 96,

8, 16, , 32, , , , 64, 72, , , 96,

Circle the numbers that appear in both sequences.

What do you notice?

How can you explain this?

Challenge

Complete this sequence:

6, 12, 18, , 30, 36, , 48, , , 66, 72, , , , ,

Can you find any numbers that are in all three sequences?

What's the pattern?

Sheet 1

Write the next three numbers as well as the rule for each sequence.

1. 2, 6, 10, , , .

Rule:

2. 12, 22, 32, , , .

Rule:

3. 48, 40, 32, , , .

Rule:

4. 90, 80, 70, , , .

Rule:

5. 22, 30, 38, , , .

Rule:

6. 45, 40, 35, , , .

Rule:

Challenge

Make up a new sequence of 6 numbers that counts in equal steps. Show your partner the first 3 in the sequence. Can they work out what the next 3 are?

What's the pattern?

Sheet 2

Write the next three numbers as well as the rule for each sequence.

1. 2, 6, 10, , , . Rule: _____

2. 6, 12, 18, , , . Rule: _____

3. 12, 22, 32, , , . Rule: _____

4. 48, 40, 32, , , . Rule: _____

5. 90, 80, 70, , , . Rule: _____

6. 22, 31, 40, , , . Rule: _____

7. 98, 86, 74, , , . Rule: _____

8. 5, 10, 20, , , . Rule: _____

Challenge

Make up three new sequences of 6 numbers. Show your partner the first 3 in the sequence. Can they work out what the next 3 are?

Multiplication and division

Answers

Day 1 Count in steps of 100 Sheet 1

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 |
| 210 | 220 | 230 | 240 | 250 | 260 | 270 | 280 | 290 | 300 |
| 310 | 320 | 330 | 340 | 350 | 360 | 370 | 380 | 390 | 400 |
| 410 | 420 | 430 | 440 | 450 | 460 | 470 | 480 | 490 | 500 |
| 510 | 520 | 530 | 540 | 550 | 560 | 570 | 580 | 590 | 600 |
| 610 | 620 | 630 | 640 | 650 | 660 | 670 | 680 | 690 | 700 |
| 710 | 720 | 730 | 740 | 750 | 760 | 770 | 780 | 790 | 800 |
| 810 | 820 | 830 | 840 | 850 | 860 | 870 | 880 | 890 | 900 |
| 910 | 920 | 930 | 940 | 950 | 960 | 970 | 980 | 990 | 1000 |

Day 1 Count in steps of 100 and 50 Sheet 2

48, 148, 248, 348, 448, 548, 648, 748, 848, 948, 1048

3, 103, 203, 303, 403, 503, 603, 703, 803, 903, 1003

28, 128, 228, 328, 428, 528, 628, 728, 828, 928, 1028

1010, 910, 810, 710, 610, 510, 410, 310, 210, 110, 10

50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550

7, 57, 107, 157, 207, 257, 307, 357, 407, 457

35, 85, 135, 185, 235, 285, 335, 385, 435, 485, 535

94, 144, 194, 244, 294, 344, 394, 444, 494, 544, 594

Day 2 Missing numbers Sheet 1

4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48, 52, 56, 60, 64, 68, 72, 76, 80, 84, 88, 92, 96, 100

8, 16, 24, 32, 40, 48, 56, 64, 72, 80, 88, 96, 104 The circled numbers are all multiples of 8.

Challenge

6, 12, 18, 24, 30, 36, 42, 48, 54, 60, 66, 72, 78, 84, 90, 96, 102

Can you find any numbers that are in all three sequences? 24, 48, 72 and 96.

Multiplication and division

Answers

Day 3 What's the pattern? Sheet 1

- | | | |
|----|------------------------|-------------------|
| 1. | 2, 6, 10, 14, 18, 22 | Rule: Add 4 |
| 2. | 12, 22, 32, 42, 52, 62 | Rule: Add 10 |
| 3. | 48, 40, 32, 24, 16, 8 | Rule: Subtract 8 |
| 4. | 90, 80, 70, 60, 50, 40 | Rule: Subtract 10 |
| 5. | 22, 30, 38, 46, 54, 62 | Rule: Add 8 |
| 6. | 45, 40, 35, 30, 25, 20 | Rule: Subtract 5 |

Challenge

- e.g. 6, 11, 16, 21, 26, 31 Rule: Add 5
or
56, 50, 44, 38, 32, 26 Rule: Subtract 6

Day 3 What's the pattern? Sheet 2

- | | | |
|----|------------------------|-------------------|
| 1. | 2, 6, 10, 14, 18, 22 | Rule: Add 4 |
| 2. | 6, 12, 18, 24, 30, 36 | Rule: Add 6 |
| 3. | 12, 22, 32, 42, 52, 62 | Rule: Add 10 |
| 4. | 48, 40, 32, 24, 16, 8 | Rule: Subtract 8 |
| 5. | 90, 80, 70, 60, 50, 40 | Rule: Subtract 10 |
| 6. | 22, 31, 40, 49, 58, 67 | Rule: Add 9 |
| 7. | 98, 86, 74, 62, 50, 38 | Rule: Subtract 12 |
| 8. | 5, 10, 20, 40, 80, 160 | Rule: Double |

Challenge

- e.g. 31, 26, 21, 16, 11, 6 Rule: Subtract 5
55, 62, 69, 76, 83, 90 Rule: Add 7
64, 32, 16, 8, 4, 2 Rule: Halve