

Isolation Pack I Maths I Week I

Remember, Mrs Foster created some great videos about the written methods we use in Year 4. You can see them by going to <https://www.halifax.omat.org.uk/week-1-remote-learning/> and then scrolling to the bottom of the page for the links.

Day 1

Use your written column methods for addition and subtraction to answer the questions on page 2. Complete two blocks, so start Mild and go Hot or start Hot and go Extra Hot

Mild – Block A

Hot – Block B

Extra Hot – Block C

Day 2

Have another go at your written column methods for addition and subtraction to answer the questions on page 3. Complete two blocks, so start Mild and go Hot or start Hot and go Extra Hot

Mild – Block A

Hot – Block B

Extra Hot – Block C

Day 3

Use your written column method for multiplication to answer the questions on page 4. Complete two blocks, so start Mild and go Hot or start Hot and go Extra Hot

Mild – Block A

Hot – Block B

Extra Hot – Block C

Day 4

Use your written bus stop method for division to answer the questions on page 5. Complete two blocks, so start Mild and go Hot or start Hot and go Extra Hot

Mild – Block A

Hot – Block B

Extra Hot – Block C

Day 5

Use your knowledge of place value to answer the questions on page 6. Complete two blocks, so start Mild and go Hot or start Hot and go Extra Hot

Mild – Block A

Hot – Block B

Extra Hot – Block C

TARGET To practise a written method for addition and subtraction.

Examples

$$\begin{array}{r} 3\ 5\ 7\ 8 \\ +\ 2\ 4\ 9\ 4 \\ \hline 6\ 0\ 7\ 2 \\ \hline 1\ 1\ 1 \end{array}$$

$$\begin{array}{r} 7\ 12\ 10\ 1 \\ \cancel{8}\ \cancel{3}\ \cancel{1}\ 5 \\ -\ 4\ 3\ 5\ 7 \\ \hline 3\ 9\ 5\ 8 \end{array}$$

A

Copy and complete.

- | | | | |
|---|-------|----|-------|
| 1 | 236 | 7 | 471 |
| | + 158 | | - 126 |
| 2 | 392 | 8 | 348 |
| | + 267 | | - 165 |
| 3 | 545 | 9 | 563 |
| | + 147 | | - 247 |
| 4 | 480 | 10 | 259 |
| | + 356 | | - 183 |
| 5 | 324 | 11 | 650 |
| | + 139 | | - 324 |
| 6 | 673 | 12 | 427 |
| | + 243 | | - 291 |

- 13 There are 336 pupils in a school. 172 are boys. How many girls are in the school?
- 14 In an orchard 529 red apples and 347 green apples are picked. How many apples are picked altogether?
- 15 A plane is flying at 580 metres above ground level. A tower, 235 metres tall, is directly below the plane. How much distance is there between the plane and the top of the tower?

B

Copy and complete.

- | | | | |
|---|--------|----|--------|
| 1 | 1548 | 7 | 5835 |
| | + 674 | | - 956 |
| 2 | 2375 | 8 | 3152 |
| | + 1685 | | - 2457 |
| 3 | 3867 | 9 | 4416 |
| | + 3675 | | - 1928 |
| 4 | 7639 | 10 | 8524 |
| | + 1878 | | - 3765 |
| 5 | 5486 | 11 | 6273 |
| | + 2529 | | - 2374 |
| 6 | 4953 | 12 | 7340 |
| | + 1789 | | - 4837 |

- 13 A farmer has 2361 sheep. 1485 have been sheared. How many have not been sheared?
- 14 Each month Mrs Jones earns £3689 and Mr Jones earns £2792. How much do they earn in a month altogether?
- 15 A bookshop sells 5768 books in one week and 8420 books in the next week. How many more books are sold in the second week?

C

Copy and complete.

- | | | | |
|---|----------|----|----------|
| 1 | 43 687 | 7 | 65 341 |
| | + 28 576 | | - 19 685 |
| 2 | 55 894 | 8 | 81 630 |
| | + 34 958 | | - 57 695 |
| 3 | 27 358 | 9 | 53 257 |
| | + 17 693 | | - 33 549 |
| 4 | 34 976 | 10 | 72 513 |
| | + 26 596 | | - 26 837 |
| 5 | 59 735 | 11 | 46 425 |
| | + 49 376 | | - 39 447 |
| 6 | 68 469 | 12 | 94 182 |
| | + 18 734 | | - 57 988 |

- 13 Santa Claus has 53 740 toys. He delivers 38 593. How many toys does he have left?



- 14 A factory makes 84 597 radios in a year. In the next year production goes up by 15 835. How many radios are made in the second year?

TARGET To practise a written method for addition and subtraction.

Examples

$$\begin{array}{r} 4936 \\ + 2189 \\ \hline 7125 \\ 111 \end{array}$$

$$\begin{array}{r} 51161 \\ \cancel{6} \cancel{2} \cancel{7} 4 \\ - 1677 \\ \hline 4597 \end{array}$$

A

Copy and complete.

- | | | | |
|---|-------|----|-------|
| 1 | 563 | 7 | 582 |
| | + 287 | | - 276 |
| | | | |
| 2 | 457 | 8 | 219 |
| | + 146 | | - 155 |
| | | | |
| 3 | 629 | 9 | 673 |
| | + 273 | | - 348 |
| | | | |
| 4 | 585 | 10 | 420 |
| | + 317 | | - 152 |
| | | | |
| 5 | 248 | 11 | 754 |
| | + 242 | | - 586 |
| | | | |
| 6 | 396 | 12 | 947 |
| | + 262 | | - 492 |

- 13 A Primary School has 415 pupils. 236 of the children are in the Upper School. How many are in the Lower School?
- 14 A lorry driver travels 436 miles. He still has 279 miles to drive. How long is his journey?
- 15 Norman's book has 308 pages. He has read 242 pages. How many more does he still have to read?

B

Copy and complete.

- | | | | |
|---|--------|----|--------|
| 1 | 4795 | 7 | 3271 |
| | + 4294 | | - 976 |
| | | | |
| 2 | 5876 | 8 | 8453 |
| | + 2384 | | - 4467 |
| | | | |
| 3 | 2264 | 9 | 5630 |
| | + 1799 | | - 3057 |
| | | | |
| 4 | 3548 | 10 | 7142 |
| | + 1475 | | - 2283 |
| | | | |
| 5 | 6687 | 11 | 4315 |
| | + 2729 | | - 3495 |
| | | | |
| 6 | 4749 | 12 | 6524 |
| | + 3555 | | - 4775 |

- 13 The Nile is 4160 miles long. The Yangtze is 3915 miles long. What is the difference in the lengths of the rivers?



- 14 In July 5639 people visit a zoo. In August the number of visitors goes up by 2485. How many people visit the zoo in August?

C

Copy and complete.

- | | | | |
|---|---------|----|---------|
| 1 | 41636 | 7 | 23126 |
| | + 27689 | | - 3479 |
| | | | |
| 2 | 29578 | 8 | 61532 |
| | + 28376 | | - 21598 |
| | | | |
| 3 | 57785 | 9 | 95344 |
| | + 13295 | | - 79768 |
| | | | |
| 4 | 76947 | 10 | 82063 |
| | + 13486 | | - 64866 |
| | | | |
| 5 | 33869 | 11 | 36410 |
| | + 27587 | | - 20785 |
| | | | |
| 6 | 65394 | 12 | 74205 |
| | + 19669 | | - 15237 |

- 13 In one day a road is used by 69284 cars and 25796 other vehicles. How many vehicles use the road altogether?
- 14 There are 31276 runners in a marathon. 5718 are wearing fancy dress. How many are not wearing fancy dress?
- 15 The population of Downton is 81425. Upton's population is 68569. How many more people live in Downton than Upton?

TARGET To multiply TU and HTU by U using a written method.

Examples

$$\begin{array}{r} 39 \\ \times 7 \\ \hline 273 \\ \underline{600} \\ 2730 \end{array}$$

$9 \times 7 = 63$ Carry 60⁽⁶⁾
 $30 \times 7 = 210$
 $210 + 60 = 270$
 Answer 273

$$\begin{array}{r} 329 \\ \times 8 \\ \hline 2632 \\ \underline{2520} \\ 26320 \end{array}$$

$9 \times 8 = 72$ Carry 70⁽⁷⁾
 $20 \times 8 + 70 = 230$ Carry 200⁽²⁾
 $300 \times 8 + 200 = 2600$
 Answer 2632

A

Work out

- 1 27×2
- 2 35×4
- 3 19×3
- 4 59×8
- 5 23×5
- 6 64×2
- 7 28×4
- 8 36×8
- 9 47×5
- 10 56×3
- 11 85×2
- 12 67×4
- 13 58×5
- 14 27×8
- 15 94×4
- 16 38×3

- 17 How many skis are needed for a party of 38 skiers?



- 18 Sixty-nine people pay £5 each for a coach ticket. How much do they pay altogether?
- 19 Pairs of socks are sold in packs of three. How many pairs are there in 47 packs?

B

Work out

- 1 237×6
- 2 168×5
- 3 459×8
- 4 520×7
- 5 316×9
- 6 859×2
- 7 146×6
- 8 738×8
- 9 674×4
- 10 236×7
- 11 504×9
- 12 158×6
- 13 387×3
- 14 162×8
- 15 490×6
- 16 354×7

- 17 Tickets for a Fun Run cost £6 each. 249 people buy tickets. How much is made for charity from ticket sales?

- 18 Each sweet weighs 5 g. What do 375 sweets weigh?

- 19 Each row of knitting takes eight minutes. There are 147 rows in a pattern. How long will it take to knit?

- 20 Elsie takes four pills every day. How many does she take in a non-leap year?

C

Work out

- 1 4386×2
- 2 2193×9
- 3 3249×6
- 4 5157×8
- 5 2604×7
- 6 7359×5
- 7 6172×6
- 8 2638×9
- 9 2395×7
- 10 8749×3
- 11 2608×8
- 12 1573×6
- 13 3645×9
- 14 2586×4
- 15 6180×7
- 16 4379×8

- 17 A stately home has 8269 visitors, each paying £5 entrance fee. How much is taken in entrance fees?

- 18 The population of Westham is 5846. Three times as many people live in Eastham. What is the population of Eastham?

- 19 Each car weighs 1874 kg. What is the total weight of the eight cars on a transporter?

- 20 Aryan earns £2957 each month. How much does he earn in six months?

TARGET To develop a written method for division.

Examples

$42 \div 3$

$$\begin{array}{r} 14 \\ 3 \overline{)54} \end{array}$$

Answer 18

$168 \div 6$

$$\begin{array}{r} 28 \\ 6 \overline{)168} \end{array}$$

Answer 28

A

Work out

1 $45 \div 3$

2 $26 \div 2$

3 $48 \div 4$

4 $70 \div 5$

5 $32 \div 2$

6 $68 \div 4$

7 $36 \div 3$

8 $90 \div 5$

9 $56 \div 4$

10 $57 \div 3$

11 $30 \div 2$

12 $65 \div 5$

13 $42 \div 3$

14 $36 \div 2$

15 $85 \div 5$

16 $64 \div 4$

17 $38 \div 2$

18 $51 \div 3$

19 $75 \div 5$

20 $72 \div 4$

B

Work out

1 $78 \div 6$

2 $112 \div 8$

3 $75 \div 3$

4 $112 \div 7$

5 $117 \div 9$

6 $145 \div 5$

7 $108 \div 6$

8 $136 \div 8$

9 $119 \div 7$

10 $78 \div 2$

11 $144 \div 9$

12 $152 \div 8$

13 $108 \div 6$

14 $112 \div 4$

15 $162 \div 9$

16 $133 \div 7$

17 There are 126 players at a 7-a-side rugby tournament. How many teams are there?

18 There are 84 questions in a quiz. The winning team answer one sixth of the questions wrongly. How many do they get right?

19 A sprinkler uses nine litres of water every minute. How long has it been on if 153 litres have been used?

20 Cards are sold in packs of eight. Simon buys 104 cards. How many packs does he buy?

C

Work out

1 $184 \div 8$

2 $136 \div 2$

3 $261 \div 9$

4 $144 \div 6$

5 $196 \div 7$

6 $188 \div 4$

7 $225 \div 9$

8 $228 \div 6$

9 $224 \div 8$

10 $171 \div 3$

11 $245 \div 7$

12 $342 \div 9$

13 $240 \div 5$

14 $174 \div 6$

15 $288 \div 8$

16 $203 \div 7$

17 There are 156 nails in six equal size packets. How many nails are there in each packet?

18 Keisha earns £9 an hour. In one week she earns £333. How many hours has she worked?

19 A pack of eight sausages weighs 272 g. How much does each sausage weigh?



TARGET To recognise the place value of each digit in a four-digit number.

The value of a digit depends upon its place in the number.

Example

Th	H	T	U
3	8	4	6

PLACE VALUE

The 3 has a value of 3000.
 The 8 has a value of 800.
 The 4 has a value of 40.
 The 6 has a value of 6.

PARTITIONING

Knowing the value of each digit means that you are able to partition the number.
 $3846 = 3000 + 800 + 40 + 6$

A

Copy and complete.

- 1 $186 = 100 + 80 + \square$
- 2 $732 = 700 + \square + 2$
- 3 $519 = \square + 10 + 9$
- 4 $248 = 200 + \square + 8$
- 5 $983 = \square + 80 + 3$
- 6 $427 = 400 + 20 + \square$
- 7 $651 = 600 + \square + 1$
- 8 $374 = \square + 70 + 4$

Write down the value of the digit underlined.

- | | |
|----------------|----------------|
| 9 <u>5</u> 26 | 14 <u>6</u> 14 |
| 10 <u>3</u> 98 | 15 <u>9</u> 57 |
| 11 <u>8</u> 45 | 16 <u>4</u> 32 |
| 12 <u>1</u> 63 | 17 <u>7</u> 09 |
| 13 <u>2</u> 78 | 18 <u>3</u> 81 |

Add 100 to:

- | | |
|--------|--------|
| 19 374 | 24 240 |
| 20 519 | 25 652 |
| 21 206 | 26 318 |
| 22 843 | 27 975 |
| 23 487 | 28 731 |

B

What is the value of the digit underlined?

- | | |
|----------------|-----------------|
| 1 <u>5</u> 46 | 5 975 <u>2</u> |
| 2 <u>2</u> 09 | 6 31 <u>8</u> 9 |
| 3 <u>7</u> 348 | 7 <u>8</u> 503 |
| 4 <u>1</u> 627 | 8 <u>4</u> 216 |

Partition these numbers as in the example.

- | | |
|-----------------|-----------------|
| 9 3597 | 13 <u>4</u> 623 |
| 10 <u>6</u> 241 | 14 7158 |
| 11 1705 | 15 2836 |
| 12 <u>8</u> 369 | 16 <u>9</u> 418 |

What needs to be added or subtracted to change:

- 17 647 to 687
- 18 4539 to 2539
- 19 1821 to 1521
- 20 2703 to 7703
- 21 4159 to 4859
- 22 6204 to 6264
- 23 3837 to 7837
- 24 8916 to 8416
- 25 4575 to 1575
- 26 2823 to 2893?

C

Take 40 from: Add 500 to:

- | | |
|--------|----------|
| 1 1265 | 6 3290 |
| 2 4897 | 7 847 |
| 3 536 | 8 27 523 |
| 4 2971 | 9 61 |
| 5 8104 | 10 4 |

Take 300 from: Add 6000 to:

- | | |
|-----------|-----------|
| 11 5924 | 16 8020 |
| 12 32 181 | 17 17 |
| 13 7763 | 18 25 863 |
| 14 11 358 | 19 409 |
| 15 49 096 | 20 39 116 |

What needs to be added or subtracted to change:

- 21 24 173 to 31 173
- 22 5908 to 5858
- 23 3090 to 1000
- 24 9998 to 100 000?

Copy and complete.

- 25 $3472 = \square + 72$
- 26 $51\ 068 = \square + 68$
- 27 $2259 = 2009 + \square$
- 28 $64\ 387 = 60\ 007 + \square$