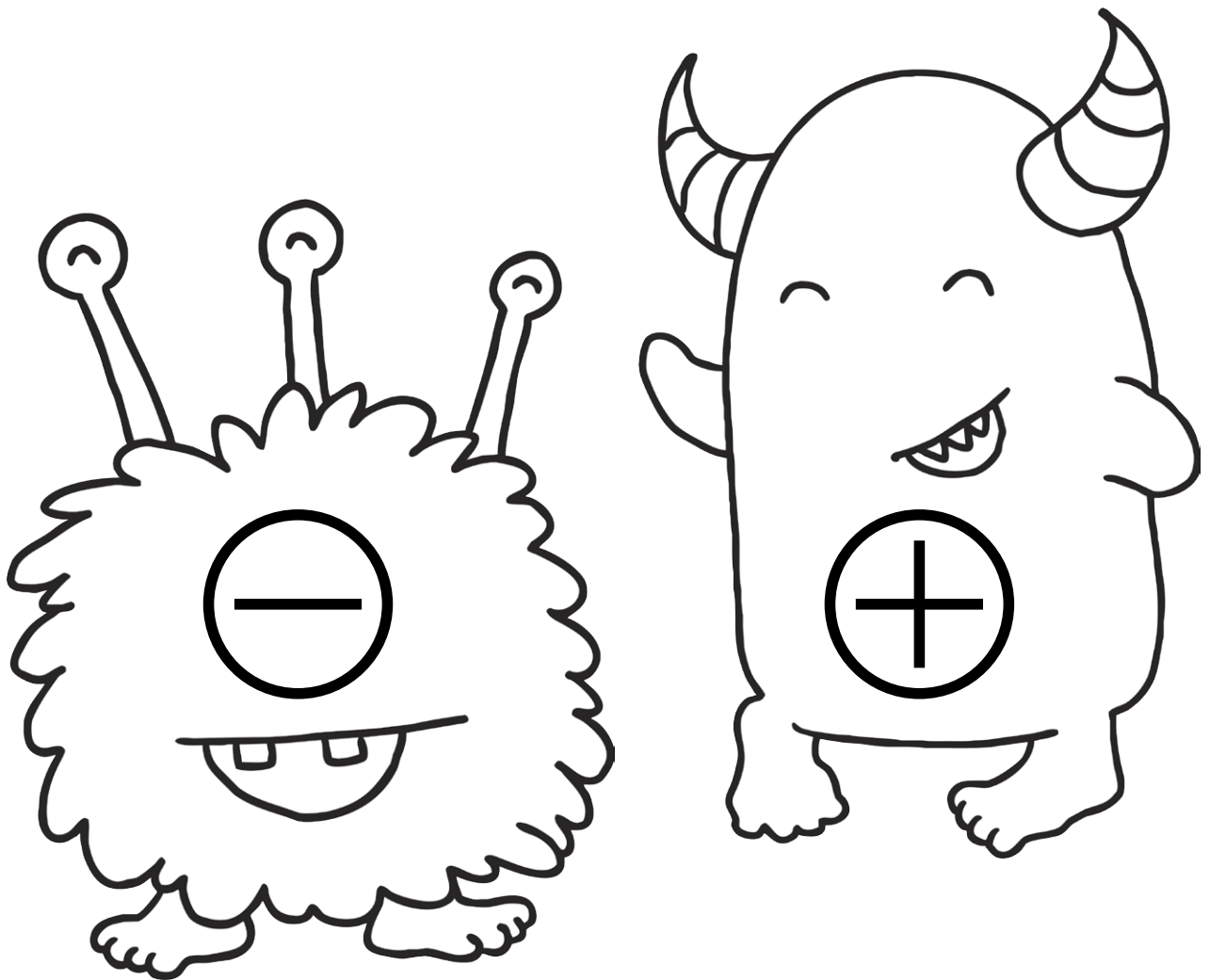


Maths Addition and Subtraction Workbook - Answers



Home Learning Maths Workbook

Pack - Answers

Year 3 Programme of Study – Addition and Subtraction

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|--|---|-------------|-------|
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Adding Ones to a 3 Digit Number: Answers

| question | answer |
|------------------|--|
| 1 | 139 |
| 2 | 216 |
| 3 | 387 |
| 4 | 499 |
| 5 | 537 |
| 6 | 627 |
| 7 | 729 |
| 8 | 959 |
| 9 | 173 |
| 10 | 231 |
| 11 | 394 |
| 12 | 483 |
| 13 | 533 |
| 14 | 654 |
| 15 | 721 |
| 16 | 1001 |
| 17 | 172 |
| 18 | 258 |
| 19 | 404 |
| 20 | 479 |
| 21 | 553 |
| 22 | 662 |
| 23 | 768 |
| 24 | 979 |
| Challenge | |
| | $7 + 8 = 15$ so $37 + 8 = 45$ so $537 + 8 = 545$ |

Subtracting Ones from a 3 Digit Number: Answers

| question | answer |
|------------------|---|
| 1 | 163 |
| 2 | 291 |
| 3 | 302 |
| 4 | 482 |
| 5 | 574 |
| 6 | 634 |
| 7 | 791 |
| 8 | 951 |
| 9 | 137 |
| 10 | 206 |
| 11 | 378 |
| 12 | 487 |
| 13 | 566 |
| 14 | 669 |
| 15 | 716 |
| 16 | 978 |
| 17 | 116 |
| 18 | 8 |
| 19 | 336 |
| 20 | 456 |
| 21 | 9 |
| 22 | 655 |
| 23 | 774 |
| 24 | 952 |
| Challenge | |
| | 14 - 8 = 6 so 84 - 8 = 76 so 384 - 8 = 376 |

Adding Tens to a 3 Digit Number: Answers

| question | answer |
|------------------|--|
| 1 | 183 |
| 2 | 292 |
| 3 | 361 |
| 4 | 483 |
| 5 | 563 |
| 6 | 650 |
| 7 | 787 |
| 8 | 999 |
| 9 | 222 |
| 10 | 337 |
| 11 | 458 |
| 12 | 501 |
| 13 | 644 |
| 14 | 765 |
| 15 | 831 |
| 16 | 1024 |
| 17 | 70 |
| 18 | 342 |
| 19 | 394 |
| 20 | 528 |
| 21 | 627 |
| 22 | 656 |
| 23 | 80 |
| 24 | 1031 |
| Challenge | |
| | $8 + 6 = 14$ so $80 + 60 = 140$ so $83 + 60 = 143$ so $700 + 143 = 843$ |

Subtracting Tens from a 3 Digit Number: Answers

| question | answer |
|------------------|--|
| 1 | 148 |
| 2 | 242 |
| 3 | 327 |
| 4 | 425 |
| 5 | 541 |
| 6 | 605 |
| 7 | 717 |
| 8 | 912 |
| 9 | 51 |
| 10 | 164 |
| 11 | 267 |
| 12 | 383 |
| 13 | 487 |
| 14 | 542 |
| 15 | 667 |
| 16 | 843 |
| 17 | 60 |
| 18 | 133 |
| 19 | 346 |
| 20 | 373 |
| 21 | 576 |
| 22 | 599 |
| 23 | 70 |
| 24 | 891 |
| Challenge | |
| | 130 - 80 = 50 or 230 - 80 = 150 |

Adding Hundreds to a 3 W igit number: Answers

| question | answer |
|------------------|---|
| 1 | 663 |
| 2 | 945 |
| 3 | 982 |
| 4 | 573 |
| 5 | 761 |
| 6 | 870 |
| 7 | 707 |
| 8 | 819 |
| 9 | 1172 |
| 10 | 1160 |
| 11 | 1408 |
| 12 | 1221 |
| 13 | 1349 |
| 14 | 1372 |
| 15 | 1601 |
| 16 | 1527 |
| 17 | 816 |
| 18 | 900 |
| 19 | 1124 |
| 20 | 459 |
| 21 | 1462 |
| 22 | 616 |
| 23 | 800 |
| 24 | 1611 |
| Challenge | |
| | $900 + 400 = 1300$ so $931 + 400 = 1331$ |

Subtracting Hundreds from a 3 Digit Number: Answers

| question | answer |
|------------------|---|
| 1 | 153 |
| 2 | 16 |
| 3 | 231 |
| 4 | 289 |
| 5 | 264 |
| 6 | 220 |
| 7 | 207 |
| 8 | 219 |
| 9 | 68 |
| 10 | 316 |
| 11 | 247 |
| 12 | 246 |
| 13 | 164 |
| 14 | 293 |
| 15 | 7 |
| 16 | 519 |
| Challenge | |
| | The principle of this activity is using 1, 2, 3 and 4 to make all numbers to 9 (1, 2, 3, 4, 4+1 or 3+2, 1+2+3 or 4+2, 1+2+4 or 3+4, 1+3+4, 2+3+4). Use these to make the required multiples of 100. |

Adding 3 and 2 Digit Numbers - No Carrying: Answers

| question | answer |
|------------------|-------------|
| 1 | 579 |
| 2 | 275 |
| 3 | 388 |
| 4 | 688 |
| 5 | 186 |
| 6 | 894 |
| 7 | 579 |
| 8 | 298 |
| 9 | 588 |
| 10 | 679 |
| 11 | 649 |
| 12 | 378 |
| 13 | 489 |
| 14 | 197 |
| 15 | 393 |
| Challenge | |
| 1 | 5 |
| 2 | 7, 3 |
| 3 | 2, 9 |

Adding 3 and 2 Digit Numbers With Carrying: Answers

| question | answer |
|------------------|----------------|
| 1 | 691 |
| 2 | 482 |
| 3 | 373 |
| 4 | 653 |
| 5 | 165 |
| 6 | 890 |
| 7 | 714 |
| 8 | 648 |
| 9 | 328 |
| 10 | 742 |
| 11 | 737 |
| 12 | 438 |
| 13 | 521 |
| 14 | 232 |
| 15 | 405 |
| Challenge | |
| 1 | 8 |
| 2 | 7, 9 |
| 3 | 7, 9, 3 |

Subtracting 2 Digit Numbers from 3 Digit Numbers No Exchanging Answers

| question | answer |
|------------------|-------------|
| 1 | 461 |
| 2 | 312 |
| 3 | 523 |
| 4 | 440 |
| 5 | 732 |
| 6 | 551 |
| 7 | 620 |
| 8 | 502 |
| 9 | 262 |
| 10 | 605 |
| 11 | 622 |
| 12 | 336 |
| 13 | 441 |
| 14 | 114 |
| 15 | 353 |
| Challenge | |
| 1 | 5, 5 |
| 2 | 7, 3 |
| 3 | 9, 5 |

Subtracting 2 Digit Numbers from 3 Digit Numbers With Exchanging: Answers

| question | answer |
|------------------|----------------|
| 1 | 325 |
| 2 | 616 |
| 3 | 405 |
| 4 | 435 |
| 5 | 604 |
| 6 | 318 |
| 7 | 382 |
| 8 | 461 |
| 9 | 95 |
| 10 | 591 |
| 11 | 543 |
| 12 | 863 |
| Challenge | |
| 1 | 5, 2 |
| 2 | 3, 2 |
| 3 | 9, 7, 8 |

Adding Two 3 Digit Numbers - No Carrying: Answers

| question | answer |
|------------------|-------------|
| 1 | 787 |
| 2 | 676 |
| 3 | 767 |
| 4 | 787 |
| 5 | 869 |
| 6 | 907 |
| 7 | 785 |
| 8 | 798 |
| 9 | 438 |
| 10 | 486 |
| 11 | 997 |
| 12 | 563 |
| 13 | 879 |
| 14 | 389 |
| 15 | 999 |
| Challenge | |
| 1 | 0, 5 |
| 2 | 5, 8 |
| 3 | 2, 5 |

Adding Two 3 Digit Numbers - With Carrying: Answers

| question | answer |
|------------------|----------------|
| 1 | 841 |
| 2 | 835 |
| 3 | 970 |
| 4 | 461 |
| 5 | 963 |
| 6 | 614 |
| 7 | 915 |
| 8 | 958 |
| 9 | 908 |
| 10 | 1375 |
| 11 | 1167 |
| 12 | 1373 |
| 13 | 961 |
| 14 | 1393 |
| 15 | 1027 |
| Challenge | |
| 1 | 4, 9, 9 |
| 2 | 5, 3, 1 |
| 3 | 7, 3, 3 |

Subtracting 3 Digit Numbers from 3 Digit Numbers - No Exchanging: Answers

| question | answer |
|------------------|----------------|
| 1 | 254 |
| 2 | 221 |
| 3 | 321 |
| 4 | 232 |
| 5 | 323 |
| 6 | 61 |
| 7 | 600 |
| 8 | 132 |
| 9 | 162 |
| 10 | 216 |
| 11 | 413 |
| 12 | 517 |
| 13 | 210 |
| 14 | 222 |
| 15 | 148 |
| Challenge | |
| 1 | 7, 1, 1 |
| 2 | 5, 2, 4 |
| 3 | 9, 3, 4 |

Subtracting 3 Digit Numbers from 3 Digit Numbers With Exchanging: Answers

| question | answer |
|------------------|----------------|
| 1 | 233 |
| 2 | 315 |
| 3 | 234 |
| 4 | 158 |
| 5 | 164 |
| 6 | 307 |
| 7 | 194 |
| 8 | 69 |
| 9 | 217 |
| 10 | 369 |
| 11 | 228 |
| 12 | 299 |
| Challenge | |
| 1 | 8, 5, 2 |
| 2 | 4, 4, 7 |
| 3 | 8, 6 3 |

Checking 2 by 2 Digit Mixed Calculations - With Carrying and Exchanging: Answers

| question | answer |
|------------------|---|
| 1 | 121 : $121 - 45 = 76$ or $121 - 76 = 45$ |
| 2 | 59 : $59 + 38 = 97$ |
| 3 | 24 : $24 + 48 = 72$ |
| 4 | 102 : $102 - 38 = 64$ or $102 - 64 = 38$ |
| 5 | 17 : $17 + 65 = 82$ |
| 6 | 95 : $95 - 46 = 49$ or $95 - 49 = 46$ |
| 7 | 152 : $152 - 59 = 93$ or $152 - 93 = 59$ |
| 8 | 39 : $29 + 39 = 68$ |
| Challenge | |
| | 136 : $136 - 35 = 101$, $101 - 54 = 47$ |

Checking 3 by 2 Digit Mixed Calculations - With Carrying and Exchanging: Answers

| question | answer |
|------------------|---|
| 1 | 498 : $419 + 79 = 498$ or $498 - 79 = 419$ |
| 2 | 551 : $57 + 551 = 608$ |
| 3 | 388 : $49 + 388 = 437$ |
| 4 | 460 : $460 - 372 = 88$ or $460 - 88 = 372$ |
| 5 | 627 : $427 + 46 = 673$ |
| 6 | 563 : $563 - 49 = 514$ or $563 - 514 = 49$ |
| 7 | 683 : $683 - 97 = 586$ or $683 - 586 = 97$ |
| 8 | 896 : $74 = 896 = 970$ |
| Challenge | |
| | 278 |

Checking 3 by 3 Digit Mixed Calculations - With Carrying and Exchanging: Answers

| question | answer |
|------------------|---|
| 1 | 601 : $601 - 356 = 245$ |
| 2 | 215 : $215 + 347 = 562$ |
| 3 | 244 : $244 + 459 = 703$ |
| 4 | 898 : $898 - 389 = 509$ or $898 - 509 = 389$ |
| 5 | 539 : $539 + 286 = 825$ |
| 6 | 991 : $991 - 319 = 672$ or $991 - 672 = 319$ |
| 7 | 801 : $801 - 209 = 592$ or $801 - 592 = 209$ |
| 8 | 526 : $526 + 387 = 913$ |
| Challenge | |
| | 1324 |

Creating Addition and Subtraction Calculations: Answers

| question | answer | | | |
|------------------|--------------------|--------------------|--------------------|--------------------|
| 1 | $34 + 23 = 57$ | $23 + 34 = 57$ | $57 - 34 = 23$ | $57 - 23 = 34$ |
| 2 | $16 + 59 = 75$ | $59 + 16 = 75$ | $75 - 59 = 16$ | $75 - 16 = 59$ |
| 3 | $92 + 45 = 137$ | $45 + 92 = 137$ | $137 - 45 = 92$ | $137 - 92 = 45$ |
| 4 | $87 + 153 = 240$ | $153 + 87 = 240$ | $240 - 87 = 153$ | $240 - 153 = 87$ |
| 5 | $153 + 240 = 393$ | $240 + 153 = 393$ | $393 - 153 = 240$ | $393 - 240 = 153$ |
| 6 | $616 + 547 = 1163$ | $547 + 616 = 1163$ | $1163 - 547 = 616$ | $1163 - 616 = 547$ |
| Challenge | | | | |
| 1 | $26 + 97 = 123$ | $97 + 26 = 123$ | $123 - 97 = 26$ | $123 - 26 = 97$ |
| 2 | $86 + 48 = 134$ | $48 + 86 = 134$ | $134 - 48 = 86$ | $134 - 86 = 48$ |
| 3 | $213 + 151 = 364$ | $151 + 213 = 364$ | $364 - 151 = 213$ | $364 - 213 = 151$ |
| 4 | $589 + 63 = 652$ | $63 + 589 = 652$ | $652 - 63 = 589$ | $652 - 589 = 63$ |
| 5 | $572 + 229 = 801$ | $229 + 572 = 801$ | $801 - 229 = 572$ | $801 - 572 = 229$ |
| 6 | $371 + 912 = 1283$ | $912 + 371 = 1283$ | $1283 - 912 = 371$ | $1283 - 371 = 912$ |

Estimating Answers: **Answers**

| question | answer |
|--------------------------------|----------------------------|
| Estimating Addition: | |
| 1 | $30 + 60 = \mathbf{90}$ |
| 2 | $20 + 30 = \mathbf{50}$ |
| 3 | $50 + 50 = \mathbf{100}$ |
| 4 | $80 + 30 = \mathbf{110}$ |
| 5 | $90 + 30 = \mathbf{120}$ |
| 6 | $60 + 90 = \mathbf{150}$ |
| 7 | $130 + 20 = \mathbf{150}$ |
| 8 | $90 + 110 = \mathbf{200}$ |
| 9 | $130 + 150 = \mathbf{280}$ |
| 10 | $350 + 280 = \mathbf{630}$ |
| Estimating Subtraction: | |
| 1 | $60 - 30 = \mathbf{30}$ |
| 2 | $80 - 20 = \mathbf{60}$ |
| 3 | $100 - 50 = \mathbf{50}$ |
| 4 | $120 - 30 = \mathbf{90}$ |
| 5 | $130 - 30 = \mathbf{100}$ |
| 6 | $230 - 90 = \mathbf{140}$ |
| 7 | $130 - 20 = \mathbf{110}$ |
| 8 | $290 - 110 = \mathbf{180}$ |
| 9 | $260 - 150 = \mathbf{110}$ |
| 10 | $350 - 280 = \mathbf{70}$ |

Exemplary Calculation Procedure: Answers

| question | answer | | | |
|---------------------|-------------------|-------------------|--------------------------|--------------------|
| Addition: | | | | |
| | My Estimate | Calculation | Answer close to estimate | Check with Inverse |
| 1 | $40 + 20 = 60$ | $39 + 23 = 62$ | $60/62 = \text{Yes!}$ | $62 - 23 = 39$ |
| 2 | $20 + 50 = 70$ | $18 + 54 = 72$ | $70/72 = \text{Yes!}$ | $72 - 18 = 54$ |
| 3 | $70 + 50 = 120$ | $67 + 54 = 121$ | $120/121 = \text{Yes!}$ | $121 - 54 = 67$ |
| 4 | $130 + 40 = 170$ | $126 + 43 = 169$ | $170/169 = \text{Yes!}$ | $169 - 43 = 126$ |
| 5 | $220 + 130 = 350$ | $218 + 133 = 351$ | $350/351 = \text{Yes!}$ | $351 - 133 = 218$ |
| Subtraction: | | | | |
| | My Estimate | Calculation | Answer close to estimate | Check with Inverse |
| 1 | $60 - 20 = 40$ | $59 - 22 = 37$ | $40/37 = \text{Yes!}$ | $22 + 37 = 59$ |
| 2 | $100 - 20 = 80$ | $97 - 18 = 79$ | $80/79 = \text{Yes!}$ | $79 + 18 = 97$ |
| 3 | $130 - 30 = 100$ | $126 - 32 = 94$ | $100/94 = \text{Yes!}$ | $94 + 32 = 126$ |
| 4 | $190 - 50 = 140$ | $188 - 52 = 136$ | $140/136 = \text{Yes!}$ | $136 + 52 = 188$ |
| 5 | $350 - 170 = 180$ | $352 - 169 = 183$ | $180/183 = \text{Yes!}$ | $169 + 183 = 352$ |

Addition and Subtraction Word Problems: Answers

| question | answer |
|------------------|-----------------------|
| 1 | 559 |
| 2 | 74 |
| 3 | 421 |
| 4 | 705 |
| 5 | £2.82 |
| 6 | 807 |
| 7 | 247 |
| 8 | £4.51 |
| 9 | 835g |
| 10 | 847 |
| Challenge | |
| | 297 (360 - 63) |

Addition and Subtraction Using Worded Calculations: Answers

| question | answer |
|------------------|--|
| 1 | 294 |
| 2 | 205 |
| 3 | 155 |
| 4 | 725 |
| 5 | 93 |
| 6 | 961 |
| 7 | 247 |
| 8 | £12.18 |
| 9 | 1216 |
| 10 | 577 |
| 11 | £15.88 |
| 12 | 97 |
| 13 | £333 |
| 14 | 519 |
| 15 | 467 |
| Challenge | |
| | Various answers. Example is $289 + 476 + 135$ (Hint: try to make ones make 20 so carry 2 tens to make tens 18 + carried 2, and hundreds 7 + carried 2) |