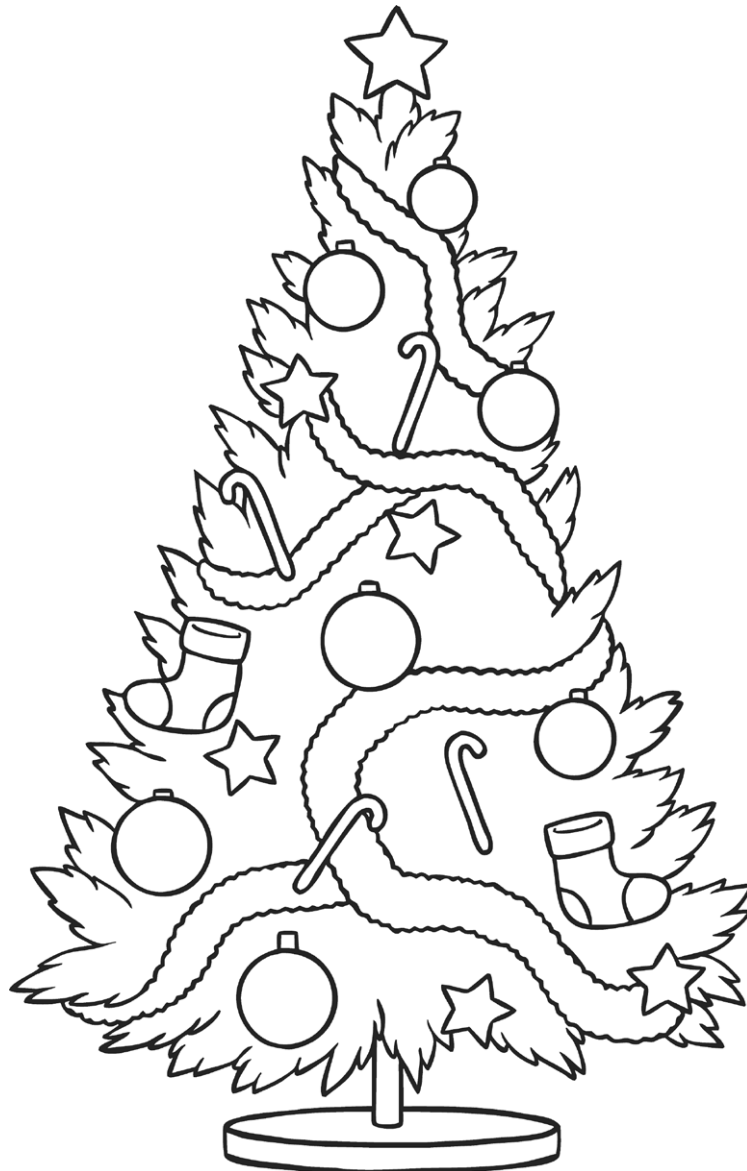
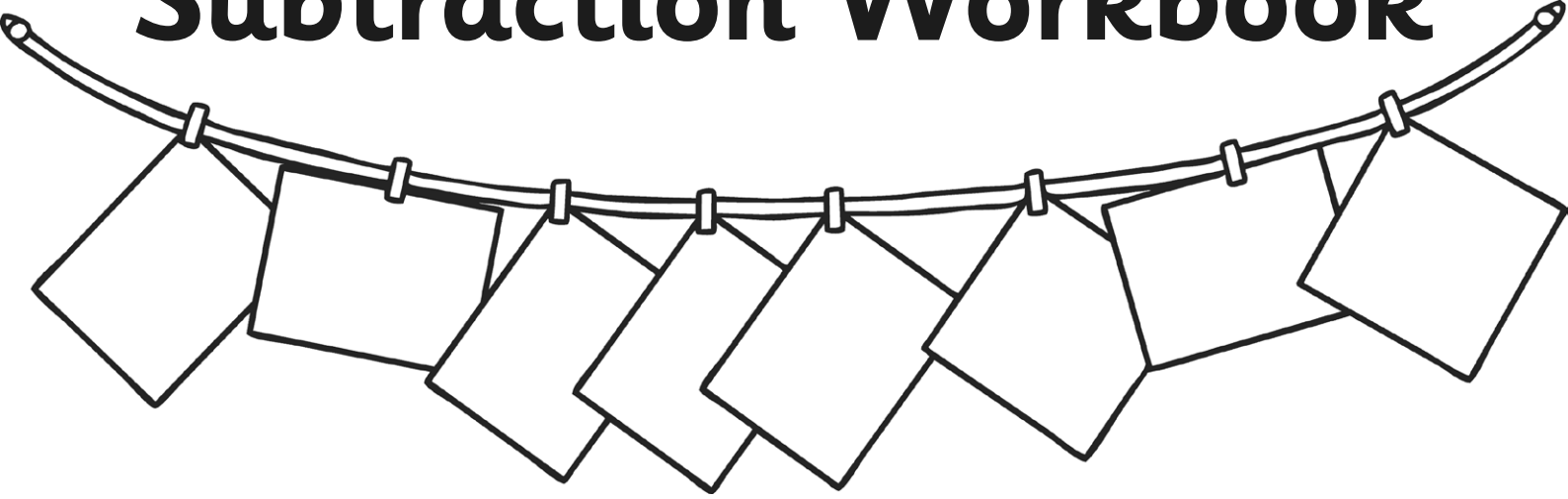
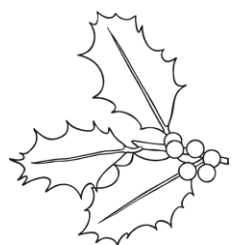
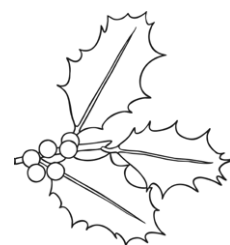


Maths Addition and Subtraction Workbook





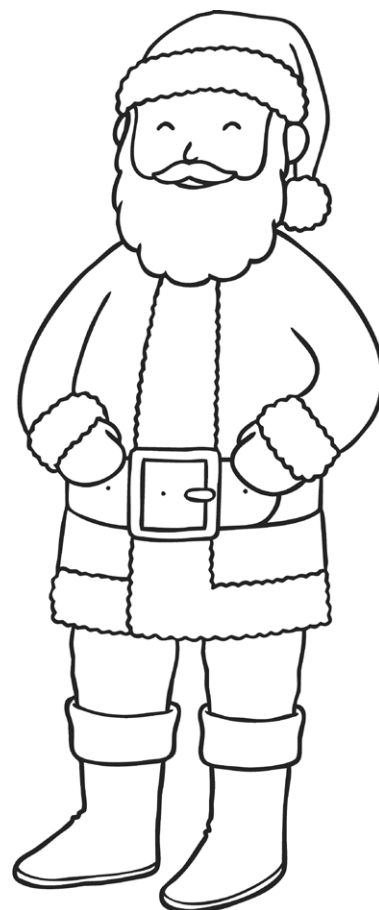
Home Learning Maths Workbook Pack



Year 3 Programme of Study – Addition and Subtraction

Statutory Requirements	Worksheet	Page Number	Notes
A three digit number and ones	Adding ones to a 3 digit number worksheet	4	
	Subtracting ones from a 3 digit number worksheet	5	
A three digit number and tens	Adding tens to a 3 digit number worksheet	6	
	Subtracting tens from a 3 digit number worksheet	7	
A three digit number and hundreds.	Adding hundreds to a 3 digit number worksheet	8	
	Subtracting hundreds from a 3 digit number worksheet	9	
Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction.	Adding 3 and 2 digit numbers in a column with no carrying answers	10	
	Adding 3 and 2 digit numbers in a column with carrying answers	11	
	Subtracting 2 digit numbers from 3 digit numbers in a column with no exchanging	12	
	Subtracting 2 digit numbers from 3 digit numbers in a column with exchanging worksheet	13	
	Adding two 3 digit numbers in a column with no carrying answers	14	
	Adding two 3 digit numbers in a column with carrying answers worksheet	15	
	Subtracting 3 digit numbers from 3 digit numbers in a column with no exchanging worksheet	16	
	Subtracting 3 digit numbers from 3 digit numbers in a column with exchanging worksheet	17	

Statutory Requirements	Worksheet	Page Number	Notes
Estimate the answer to a calculation and use inverse operations to check answers.	Inverse checking 2 digit by 2 digit mixed with carrying and exchanging choice of method worksheet	18	
	Inverse checking 3 digit by 2 digit mixed with carrying and exchanging choice of method worksheet	19	
	Inverse checking 3 digit by 3 digit mixed with carrying and exchanging worksheet	20	
	Inverse create addition and subtraction calculations from a set of 3 numbers worksheet	21	
	Estimating Answers Worksheet	22 - 23	
	Exemplary Calculation Procedure	24 - 25	
Solve problems, including missing number problems, using number facts, place value value, and more complex addition and subtraction.	Addition and subtraction word problems worksheet year 3	26	
	Addition and subtraction using worded calculations year 3	27	





Adding Ones to a 3 Digit Number



LO: to add ones to a 3 digit number

Calculate the answer to the following:

1) $136 + 3 =$

2) $212 + 4 =$

3) $381 + 6 =$

4) $494 + 5 =$

5) $533 + 4 =$

6) $620 + 7 =$

7) $725 + 4 =$

8) $952 + 7 =$

Calculate the answer to the following:

9) $165 + 8 =$

10) $224 + 7 =$

11) $388 + 6 =$

12) $478 + 5 =$

13) $529 + 4 =$

14) $645 + 9 =$

15) $713 + 8 =$

16) $995 + 6 =$

Calculate the answer to the following:

17) $165 + 7 =$

18) $252 + 6 =$

19) $395 + 9 =$

20) $478 + 1 =$

21) $546 + 7 =$

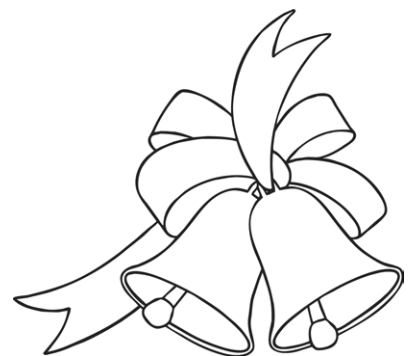
22) $659 + 3 =$

23) $765 + 3 =$

24) $971 + 8 =$

Challenge

Explain how you would
use $7 + 8 = 15$ to
calculate $537 + 8$.





Subtracting Ones from a 3 Digit Number



LO: to subtract ones from a 3 digit number

Calculate the answer to the following:

- 1) $166 - 3 =$
- 2) $295 - 4 =$
- 3) $307 - 5 =$
- 4) $489 - 7 =$
- 5) $578 - 4 =$
- 6) $636 - 2 =$
- 7) $794 - 3 =$
- 8) $959 - 8 =$

Calculate the answer to the following:

- 9) $145 - 8 =$
- 10) $213 - 7 =$
- 11) $383 - 5 =$
- 12) $491 - 4 =$
- 13) $571 - 5 =$
- 14) $678 - 9 =$
- 15) $722 - 6 =$
- 16) $982 - 4 =$

Calculate the answer to the following:

- 17) $122 - 6 =$
- 18) $279 - _ = 271$
- 19) $_ - 7 = 329$
- 20) $459 - 3 =$
- 21) $566 - _ = 557$
- 22) $659 - 4 =$
- 23) $779 - 5 =$
- 24) $_ - 8 = 944$

Challenge

Explain how you would
use $14 - 8 = 6$ to
calculate $384 - 8$.





Adding Tens to a 3 Digit Number



LO: to add tens to a 3 digit number

Calculate the answer to the following:

1) $153 + 30 =$

2) $272 + 20 =$

3) $301 + 60 =$

4) $413 + 70 =$

5) $523 + 40 =$

6) $630 + 20 =$

7) $737 + 50 =$

8) $939 + 60 =$

Calculate the answer to the following:

9) $142 + 80 =$

10) $267 + 70 =$

11) $398 + 60 =$

12) $451 + 50 =$

13) $564 + 80 =$

14) $675 + 90 =$

15) $761 + 70 =$

16) $964 + 60 =$

Calculate the answer to the following:

17) $102 + \underline{\quad} = 172$

18) $282 + 60 =$

19) $\underline{\quad} + 30 = 424$

20) $488 + 40 =$

21) $537 + 90 =$

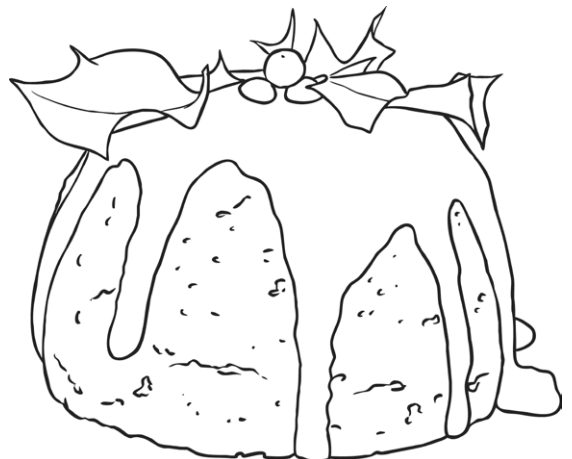
22) $\underline{\quad} + 30 = 686$

23) $770 + \underline{\quad} = 850$

24) $961 + 70 =$

Challenge

Explain how you would
use $8 + 6 = 14$ to
calculate $783 + 60$.





Subtracting Tens from a 3 Digit Number



LO: to subtract tens from a 3 digit number

Calculate the answer to the following:

1) $178 - 30 =$

2) $282 - 40 =$

3) $377 - 50 =$

4) $495 - 70 =$

5) $581 - 40 =$

6) $625 - 20 =$

7) $767 - 50 =$

8) $992 - 80 =$

Calculate the answer to the following:

9) $131 - 80 =$

10) $224 - 60 =$

11) $357 - 90 =$

12) $413 - 30 =$

13) $537 - 50 =$

14) $612 - 70 =$

15) $727 - 60 =$

16) $933 - 90 =$

Calculate the answer to the following:

17) $134 - \underline{\quad} = 74$

18) $213 - 80 = \underline{\quad}$

19) $\underline{\quad} - 70 = 276$

20) $403 - 30 = \underline{\quad}$

21) $\underline{\quad} - 90 = 486$

22) $619 - 20 = \underline{\quad}$

23) $717 - \underline{\quad} = 647$

24) $941 - 50 = \underline{\quad}$

Challenge

Explain what other calculations you might use $13 - 8 = 5$ to calculate the answer





Adding Hundreds to a 3 Digit Number



LO: to add hundreds to a 3 digit number

Calculate the answer to the following:

- 1) $163 + 500 =$
- 2) $345 + 600 =$
- 3) $582 + 400 =$
- 4) $273 + 300 =$
- 5) $561 + 200 =$
- 6) $170 + 700 =$
- 7) $207 + 500 =$
- 8) $719 + 100 =$

Calculate the answer to the following:

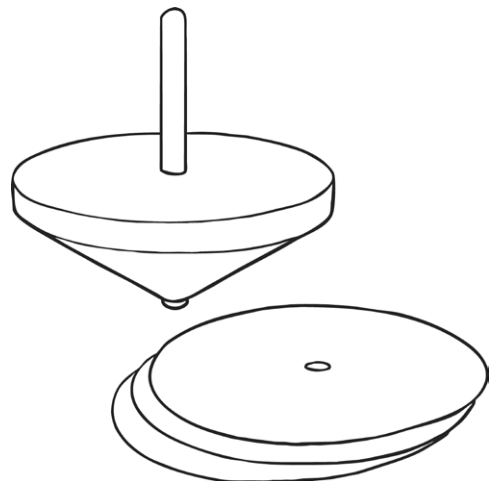
- 9) $372 + 800 =$
- 10) $460 + 700 =$
- 11) $508 + 900 =$
- 12) $721 + 500 =$
- 13) $549 + 800 =$
- 14) $672 + 700 =$
- 15) $701 + 900 =$
- 16) $927 + 600 =$

Calculate the answer to the following:

- 17) $116 + 700 =$
- 18) $352 + \underline{\quad} = 1252$
- 19) $824 + 300 =$
- 20) $\underline{\quad} + 400 = 859$
- 21) $562 + 900 =$
- 22) $\underline{\quad} + 300 = 916$
- 23) $752 + \underline{\quad} = 1552$
- 24) $911 + 700 =$

Challenge

Explain how you would
use $9 + 4 = 13$ to
calculate $931 + 400$.





Subtracting Hundreds from a 3 Digit Number



LO: to subtract hundreds from a 3 digit number

Calculate the answer to the following:

- 1) $353 - 200 =$
- 2) $416 - 400 =$
- 3) $531 - 300 =$
- 4) $789 - 500 =$
- 5) $564 - 300 =$
- 6) $820 - 600 =$
- 7) $707 - 500 =$
- 8) $919 - 700 =$

Calculate the answer to the following:

- 9) $268 - 200 =$
- 10) $416 - 100 =$
- 11) $547 - 300 =$
- 12) $346 - 100 =$
- 13) $564 - 400 =$
- 14) $893 - 600 =$
- 15) $507 - 500 =$
- 16) $919 - 400 =$

Challenge

Take any 3 digit number. You can subtract 100, 200, 300 or 400 once each, but you must not go below 0.

e.g. $672 - 100 = 572$, $572 - 300 = 272$, $272 - 200 = 72$.

100, 300 and 200 were subtracted to get to 72.

Can you always get to a number between or equal to 100 and 1?
If you use as many subtractions as possible, are there any patterns?



Adding 3 and 2 Digit Numbers - No Carrying



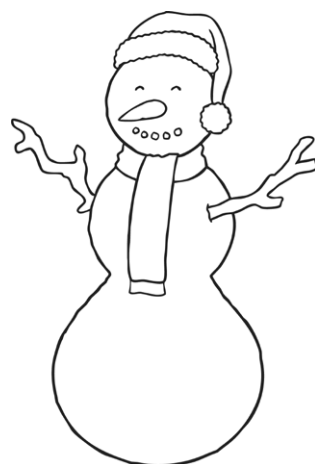
LO: to use column addition

Calculate the answer to the following:

1. $\begin{array}{r} 534 \\ + 45 \\ \hline \hline \end{array}$	2. $\begin{array}{r} 213 \\ + 62 \\ \hline \hline \end{array}$	3. $\begin{array}{r} 304 \\ + 84 \\ \hline \hline \end{array}$	4. $\begin{array}{r} 672 \\ + 16 \\ \hline \hline \end{array}$
5. $\begin{array}{r} 130 \\ + 56 \\ \hline \hline \end{array}$	6. $\begin{array}{r} 802 \\ + 92 \\ \hline \hline \end{array}$	7. $\begin{array}{r} 529 \\ + 50 \\ \hline \hline \end{array}$	8. $\begin{array}{r} 281 \\ + 17 \\ \hline \hline \end{array}$
9. $\begin{array}{r} 552 \\ + 36 \\ \hline \hline \end{array}$	10. $\begin{array}{r} 607 \\ + 72 \\ \hline \hline \end{array}$	11. $\begin{array}{r} 628 \\ + 21 \\ \hline \hline \end{array}$	12. $\begin{array}{r} 327 \\ + 51 \\ \hline \hline \end{array}$
13. $\begin{array}{r} 474 \\ + 15 \\ \hline \hline \end{array}$	14. $\begin{array}{r} 153 \\ + 44 \\ \hline \hline \end{array}$	15. $\begin{array}{r} 371 \\ + 22 \\ \hline \hline \end{array}$	

Challenge: Complete the following calculations:

$\begin{array}{r} 4_2 \\ + 15 \\ \hline 467 \end{array}$	$\begin{array}{r} _53 \\ + 4_ \\ \hline 796 \end{array}$	$\begin{array}{r} 8_8 \\ + 21 \\ \hline 84_ \end{array}$
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Adding 3 and 2 Digit Numbers - With Carrying



LO: to use column addition

Calculate the answer to the following:

$\begin{array}{r} 673 \\ + 18 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 457 \\ + 25 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 304 \\ + 69 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 615 \\ + 38 \\ \hline \\ \hline \end{array}$
$\begin{array}{r} 149 \\ + 16 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 805 \\ + 85 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 672 \\ + 42 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 581 \\ + 67 \\ \hline \\ \hline \end{array}$
$\begin{array}{r} 292 \\ + 36 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 670 \\ + 72 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 662 \\ + 75 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 387 \\ + 51 \\ \hline \\ \hline \end{array}$
$\begin{array}{r} 476 \\ + 45 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 158 \\ + 74 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 379 \\ + 26 \\ \hline \\ \hline \end{array}$	

Challenge: Complete the following calculations:

$\begin{array}{r} 3_2 \\ + 55 \\ \hline 437 \\ \hline \end{array}$	$\begin{array}{r} _47 \\ + _4_ \\ \hline 796 \\ \hline \end{array}$	$\begin{array}{r} 8_8 \\ + 65 \\ \hline _4_ \\ \hline \end{array}$
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Subtracting 2 Digit Numbers from 3 Digit Numbers No Exchanging



LO: to use column subtraction

Calculate the answer to the following:

$\begin{array}{r} 479 \\ - 18 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 337 \\ - 25 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 584 \\ - 61 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 478 \\ - 38 \\ \hline \\ \hline \end{array}$
$\begin{array}{r} 748 \\ - 16 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 563 \\ - 12 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 652 \\ - 32 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 569 \\ - 67 \\ \hline \\ \hline \end{array}$
$\begin{array}{r} 298 \\ - 36 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 677 \\ - 72 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 697 \\ - 75 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 387 \\ - 51 \\ \hline \\ \hline \end{array}$
$\begin{array}{r} 486 \\ - 45 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 188 \\ - 74 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 379 \\ - 26 \\ \hline \\ \hline \end{array}$	

Challenge: Complete the following calculations:

$\begin{array}{r} 3_7 \\ - 5_ \\ \hline 302 \\ \hline \end{array}$	$\begin{array}{r} 54_ \\ - _2 \\ \hline 515 \\ \hline \end{array}$	$\begin{array}{r} 8_8 \\ - 6_ \\ \hline 833 \\ \hline \end{array}$
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Subtracting 2 Digit Numbers from 3 Digit Numbers With Exchanging



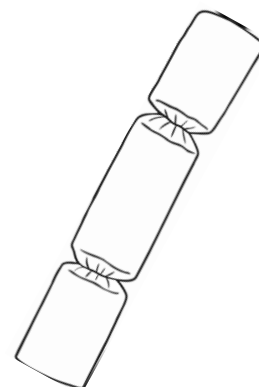
LO: to use column subtraction

Calculate the answer to the following:

$\begin{array}{r} 343 \\ - 18 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 641 \\ - 25 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 472 \\ - 67 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 473 \\ - 38 \\ \hline \\ \hline \end{array}$
$\begin{array}{r} 620 \\ - 16 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 364 \\ - 46 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 415 \\ - 33 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 528 \\ - 67 \\ \hline \\ \hline \end{array}$
$\begin{array}{r} 126 \\ - 31 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 673 \\ - 82 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 607 \\ - 64 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 916 \\ - 53 \\ \hline \\ \hline \end{array}$

Challenge: Complete the following calculations:

$\begin{array}{r} 2_2 \\ - 3_ \\ \hline 220 \\ \hline \end{array}$	$\begin{array}{r} 47_ \\ - _4 \\ \hline 449 \\ \hline \end{array}$	$\begin{array}{r} 8_1 \\ - 6_ \\ \hline _24 \\ \hline \end{array}$
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Adding Two 3 Digit Numbers - No Carrying



LO: to use column addition

Calculate the answer to the following:

$\begin{array}{r} 273 \\ + 514 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 451 \\ + 225 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 304 \\ + 463 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 615 \\ + 172 \\ \hline \\ \hline \end{array}$
$\begin{array}{r} 153 \\ + 716 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 805 \\ + 102 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 572 \\ + 213 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 531 \\ + 267 \\ \hline \\ \hline \end{array}$
$\begin{array}{r} 202 \\ + 236 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 370 \\ + 116 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 622 \\ + 375 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 312 \\ + 251 \\ \hline \\ \hline \end{array}$
$\begin{array}{r} 476 \\ + 403 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 155 \\ + 234 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 371 \\ + 628 \\ \hline \\ \hline \end{array}$	

Challenge: Complete the following calculations:

$\begin{array}{r} 4_2 \\ + 3_ \\ \hline 437 \\ \hline \end{array}$	$\begin{array}{r} 941 \\ + 4_ \\ \hline 9_6 \\ \hline \end{array}$	$\begin{array}{r} 7_5 \\ + 22 \\ \hline 74_ \\ \hline \end{array}$
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Adding Two 3 Digit Numbers - With Carrying



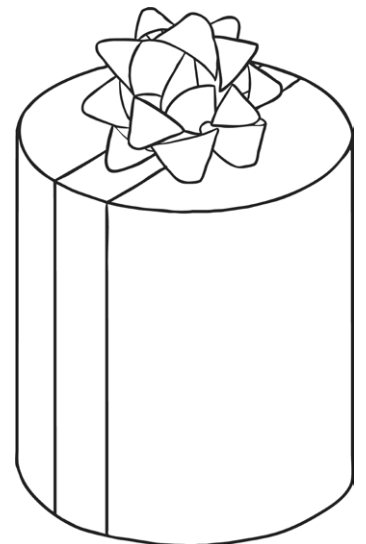
LO: to use column addition

Calculate the answer to the following:

$\begin{array}{r} 323 \\ + 518 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 607 \\ + 228 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 507 \\ + 463 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 319 \\ + 142 \\ \hline \\ \hline \end{array}$
$\begin{array}{r} 257 \\ + 706 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 505 \\ + 109 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 672 \\ + 243 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 591 \\ + 367 \\ \hline \\ \hline \end{array}$
$\begin{array}{r} 572 \\ + 336 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 760 \\ + 615 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 822 \\ + 345 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 912 \\ + 461 \\ \hline \\ \hline \end{array}$
$\begin{array}{r} 476 \\ + 485 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 655 \\ + 738 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 379 \\ + 648 \\ \hline \\ \hline \end{array}$	

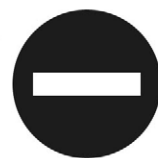
Challenge: Complete the following calculations:

$\begin{array}{r} 5_8 \\ + _3_ \\ \hline 1487 \\ \hline \end{array}$	$\begin{array}{r} 641 \\ + _7_ \\ \hline 12_4 \\ \hline \end{array}$	$\begin{array}{r} 4_5 \\ + 878 \\ \hline 1_5_ \\ \hline \end{array}$
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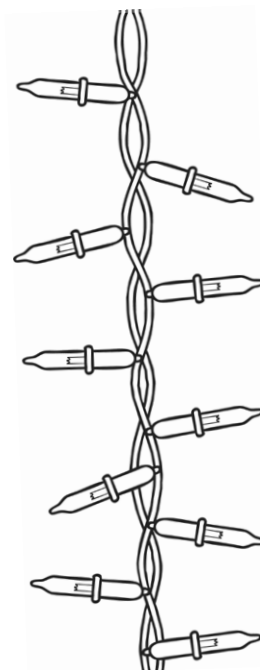
Subtracting 3 Digit Numbers from 3 Digit Numbers No Exchanging



LO: to use column subtraction

Calculate the answer to the following:

$\begin{array}{r} 569 \\ - 315 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 346 \\ - 125 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 774 \\ - 453 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 652 \\ - 420 \\ \hline \\ \hline \end{array}$
$\begin{array}{r} 628 \\ - 305 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 573 \\ - 512 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 832 \\ - 232 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 599 \\ - 467 \\ \hline \\ \hline \end{array}$
$\begin{array}{r} 298 \\ - 136 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 687 \\ - 471 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 988 \\ - 575 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 768 \\ - 251 \\ \hline \\ \hline \end{array}$
$\begin{array}{r} 555 \\ - 345 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 596 \\ - 374 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 368 \\ - 220 \\ \hline \\ \hline \end{array}$	



Challenge: Complete the following calculations:

$\begin{array}{r} 34_ \\ - 2_4 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} _48 \\ - 30_ \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 7_4 \\ - _60 \\ \hline \\ \hline \end{array}$
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Subtracting 3 Digit Numbers from 3 Digit Numbers With Exchanging



LO: to use column subtraction

Calculate the answer to the following:

$\begin{array}{r} 451 \\ - 218 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 840 \\ - 525 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 472 \\ - 238 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 481 \\ - 323 \\ \hline \\ \hline \end{array}$
$\begin{array}{r} 690 \\ - 526 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 726 \\ - 419 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 427 \\ - 233 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 519 \\ - 450 \\ \hline \\ \hline \end{array}$
$\begin{array}{r} 353 \\ - 136 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 627 \\ - 258 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 622 \\ - 394 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 951 \\ - 652 \\ \hline \\ \hline \end{array}$

Challenge: Complete the following calculations:

$\begin{array}{r} 73_ \\ - 4_7 \\ \hline _81 \\ \hline \end{array}$	$\begin{array}{r} _70 \\ - 29_ \\ \hline 1_6 \\ \hline \end{array}$	$\begin{array}{r} _01 \\ - 4_8 \\ \hline 33_ \\ \hline \end{array}$
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Checking 2 by 2 Digit Mixed Calculations - With Carrying and Exchanging

LO: to check by using inverse

Calculate the answer to the following calculations and check by using the inverse (addition or subtraction). Choose the best method for you - column method, number line, near doubles etc.

1 $76 + 45 =$ 	2 $97 - 38 =$
3 $72 - 48 =$ 	4 $64 + 38 =$
5 $82 - 65 =$ 	6 $49 + 46 =$
7 $93 + 59 =$ 	8 $68 - 29 =$

Challenge: explain how you might check your answer to this calculation.

$$47 + 54 + 35 =$$

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

LO: to check by using inverse

Calculate the answer to the following calculations and check by using the inverse (addition or subtraction). Choose the best method for you - column method, number line, near doubles etc.

1 $419 + 79 =$	2 $608 - 57 =$
3 $437 - 49 =$	4 $372 + 88 =$
5 $673 - 46 =$	6 $514 + 49 =$
7 $586 + 97 =$	8 $970 - 74 =$

Challenge: use 2 different methods to calculate and check this calculation.
Can you explain which method you find better?

$$365 - 87 =$$

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

LO: to check by using inverse

Calculate the answer to the following calculations and check by using the inverse (addition or subtraction). Choose the best method for you - column method, number line, near doubles etc.

1 $245 + 356 =$ 	2 $562 - 347 =$
3 $703 - 459 =$ 	4 $509 + 389 =$
5 $825 - 286 =$ 	6 $672 + 319 =$
7 $592 + 209 =$ 	8 $913 - 387 =$

Challenge: explain how you might use the inverse to check this calculation.

$$541 + 518 + 265 =$$

Creating Addition and Subtraction Calculations

LO: to understand addition is the inverse of subtraction

Create 2 addition and 2 subtraction calculations from each set of 3 numbers

1	34	23	57	2	16	59	75	3	92	45	137
$\underline{\quad} + \underline{\quad} = \underline{\quad}$ $\underline{\quad} + \underline{\quad} = \underline{\quad}$ $\underline{\quad} - \underline{\quad} = \underline{\quad}$ $\underline{\quad} - \underline{\quad} = \underline{\quad}$				$\underline{\quad} + \underline{\quad} = \underline{\quad}$ $\underline{\quad} + \underline{\quad} = \underline{\quad}$ $\underline{\quad} - \underline{\quad} = \underline{\quad}$ $\underline{\quad} - \underline{\quad} = \underline{\quad}$				$\underline{\quad} + \underline{\quad} = \underline{\quad}$ $\underline{\quad} + \underline{\quad} = \underline{\quad}$ $\underline{\quad} - \underline{\quad} = \underline{\quad}$ $\underline{\quad} - \underline{\quad} = \underline{\quad}$			
4	87	240	153	5	393	240	153	6	616	547	1163
$\underline{\quad} + \underline{\quad} = \underline{\quad}$ $\underline{\quad} + \underline{\quad} = \underline{\quad}$ $\underline{\quad} - \underline{\quad} = \underline{\quad}$ $\underline{\quad} - \underline{\quad} = \underline{\quad}$				$\underline{\quad} + \underline{\quad} = \underline{\quad}$ $\underline{\quad} + \underline{\quad} = \underline{\quad}$ $\underline{\quad} - \underline{\quad} = \underline{\quad}$ $\underline{\quad} - \underline{\quad} = \underline{\quad}$				$\underline{\quad} + \underline{\quad} = \underline{\quad}$ $\underline{\quad} + \underline{\quad} = \underline{\quad}$ $\underline{\quad} - \underline{\quad} = \underline{\quad}$ $\underline{\quad} - \underline{\quad} = \underline{\quad}$			

Create 2 addition and 2 subtraction calculations from each set of 3 numbers, writing the full calculations in the given box.

1	26	97	123	2	86	134	48	3	364	213	151
4	652	589	63	5	572	801	229	6	371	912	1283

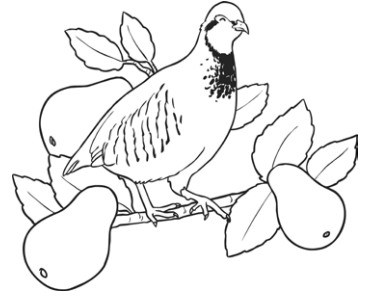
Estimating Answers

To answer the following questions decide which multiple of 10 each number is closest to and then add or subtract the numbers. Trying to answer quickly will help you to practise estimating rather than working the answer out.

Example

1. $32 + 59 =$

My estimate: $\boxed{20} + \boxed{70} = 90$



Estimating Addition:

1. $32 + 59 =$

My estimate: $\boxed{} + \boxed{} = \boxed{}$

2. $23 + 28 =$

My estimate: $\boxed{} + \boxed{} = \boxed{}$

3. $51 + 53 =$

My estimate: $\boxed{} + \boxed{} = \boxed{}$

4. $81 + 33 =$

My estimate: $\boxed{} + \boxed{} = \boxed{}$

5. $89 + 27 =$

My estimate: $\boxed{} + \boxed{} = \boxed{}$

6. $59 + 92 =$

My estimate: $\boxed{} + \boxed{} = \boxed{}$

7. $132 + 19 =$

My estimate: $\boxed{} + \boxed{} = \boxed{}$

8. $88 + 109 =$

My estimate: $\boxed{} + \boxed{} = \boxed{}$

9. $127 + 152 =$


My estimate: $\boxed{} + \boxed{} = \boxed{}$

10. $353 + 281 =$


My estimate: $\boxed{} + \boxed{} = \boxed{}$

Estimating Subtraction:


1. $58 - 32 =$

My estimate: - = 


2. $79 - 22 =$

My estimate: - = 


3. $104 - 51 =$

My estimate: - = 


4. $121 - 33 =$

My estimate: - = 


5. $129 - 27 =$

My estimate: - = 


6. $229 - 92 =$

My estimate: - = 


7. $132 - 17 =$

My estimate: - = 


8. $288 - 109 =$

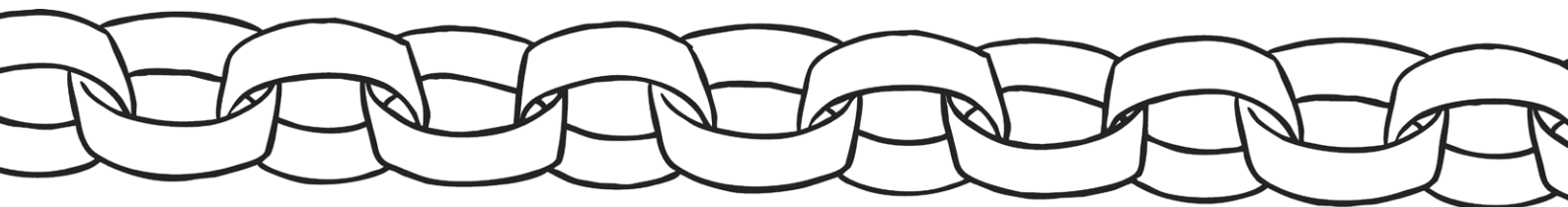
My estimate: - = 

9. $257 - 152 =$

My estimate: - = 

10. $353 - 281 =$

My estimate: - = 



Exemplary Calculation Procedure

Estimating, Answering and Checking with Inverse Operation

1. Begin by estimating your answer using the nearest multiple of 10 for each number.
2. Perform the exact calculation using your chosen method.
3. Check that your answer is close to your estimate.
4. Check your answer is correct by working backwards using the inverse operation.



Addition Calculations:

Example:

Number Sentence	My Estimate	Calculation	Answer close to estimate	Check with Inverse	Correct?
e.g. $57 + 39$	$60 + 40 = 100$	$\begin{array}{r} 57 \\ + 39 \\ \hline 96 \end{array}$	$96/100 = \text{Yes!}$	$\begin{array}{r} 8 \\ 96 \\ - 39 \\ \hline 57 \end{array}$	Yes!

Number Sentence	My Estimate	Calculation	Answer close to estimate	Check with Inverse	Correct?
1. $39 + 23$					
2. $18 + 54$					
3. $67 + 54$					
4. $126 + 43$					



Addition and Subtraction Word Problems



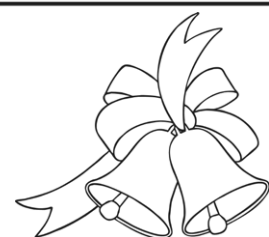
LO: to solve word problems using addition and subtraction

Solve the following problems:

- 1) There are 167 books in one classroom and 392 books in the other.
How many books are there altogether in both classrooms?
- 2) Jay has a collection of 263 football cards. His brother has 189.
How many more football cards does Jay have?
- 3) A family drive 208 miles from London to Manchester, and then 213 miles on to Glasgow.
How far did they travel altogether?
- 4) A cricket team score 456 in the first innings and 249 in the second innings.
How many runs did they score altogether?
- 5) Jenny has £5.67. She spends £2.85 on a present for her brother.
How much money does she have left?
- 6) Abi collects stamps. She has 351 in a box and 456 in a book.
How many does she have altogether?
- 7) A lorry driver has a 561 mile journey. He stops for a break after 314 miles.
How much further has he to travel?
- 8) A pack of Christmas cards costs £5.49.
How much change would there be from £10.00?
- 9) A packet of lentils weighs 450g and a packet of kidney beans weighs 385g.
How much do they both weigh altogether?
- 10) A shopkeeper has 367 bottles of lemonade.
He orders 480 more. How many bottles of lemonade will he have now?

Challenge

Two children have 720 marbles between them.
Jay has 126 more than Abi.
How many does Abi have?





Addition and Subtraction Using Worded Calculations



LO: to solve word problems using addition and subtraction

Solve the following problems:

- 1) What number is thirty five more than two hundred and fifty nine?
- 2) What number is 451 subtract 246?
- 3) How much larger is 817 than 662?
- 4) What number is three hundred and six more than four hundred and nineteen?
- 5) What number is the difference between two hundred and sixteen and three hundred and nine?
- 6) Add five hundred and ninety three and three hundred and sixty eight.
- 7) What number is four hundred and sixty five less than seven hundred and twelve?
- 8) Increase £5.73 by £6.45.
- 9) What number is the sum of six hundred and forty and five hundred and seventy six?
- 10) Decrease 790 by 213.
- 11) Add together £2.58, £6.27 and £7.03.
- 12) What number is two hundred and fourteen minus one hundred and seventeen?
- 13) Take £271 away from £604.
- 14) If I increase a number by 382 and get 901, what number did I start with?
- 15) Add together 219 and 734, then subtract 486.

Challenge

Use the digits 1 to 9 to make three numbers that add up to 900.