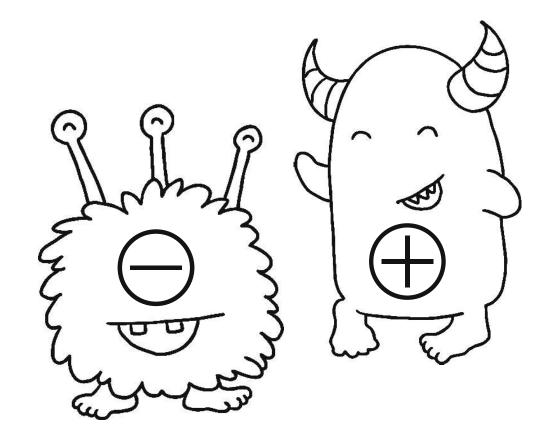
Addition and Subtraction Workbook







Home Learning Year 3 Maths Workbook Pack

Year 3 Programme of Study - Addition and Subtraction

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Addition and Subtraction Using Worded Calculations

Solve the following problems:

- 1. What number is 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.





Addition and Subtraction Word Problems

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 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 £6.67. 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

Jay and Abi are answering a problem:

Jay has 62 marbles, Abi has 43 marbles. How many more marbles does Jay have than Abi?

Abi does the calculation 62 + 43. Jay does the calculation 62-43. Who is correct? Explain how you know.





| Statutory Requirements | Worksheet | Page Number | Notes |
|--|--|-------------|-------|
| | Inverse checking 2 digit by 2 digit mixed with carrying and exchanging choice of method worksheet | 18 | |
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| | Inverse checking 3 digit by 3 digit mixed with carrying and exchanging worksheet | 20 | |
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and subtraction.

Adding Ones to a 3-Digit Number

Calculate the answers to the following:

Challenge

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



| 5. 218 + 133 | | | | | | |
|---------------------|--|--|--|--|--|--|
| | | | | | | |
| | | | | | | |
| | | | | | | |

Subtraction Calculations:

Example:

| Number Sentence | My Estimate | | | Calculation | | Che wit | | verse | Correct? |
|--------------------|--------------|---------------|-------|-------------|--------------|------------|--------------------------|-------------|----------|
| e.g. 84 - 29 | 80 - 30 = 50 | 7 8 - 2 | 4 9 5 | | 50/55 = Yes! | + | 5 2 8 ₁ | 5 9 4 | Yes! |

| Number Sentence | My Estimate | Calculation | Answer close to estimate | Check with Inverse | Correct? |
|---------------------|-------------|-------------|-----------------------------|-----------------------|----------|
| 1. 59 - 22 | | | | | |
| 2. 97 - 18 | | | | | |
| 3. 126 - 32 | | | | | |
| 4. 188 - 52 | | | | | |
| 5. 352 - 169 | | | | | |

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 | 5 7 + 3 9 9 6 | 96/100 = Yes! | ⁸ 9, ¹ 6 - <u>3 9</u> 5 7 | 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 | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |







Subtracting Ones from a 3-Digit Number

Calculate the answers to the following:

- 3. 307 5 = _____ 15. 722 6 = ____
- 4. 489 7 = _____ 16. 982 4 = ____
- 5. 578 4 = _____ 17. 122 6 = ____
- 6. 636 2 = _____ = 271
- 7. 794 3 = _____ 19. _____ 3 = 333
- 8. 959 8 = ______ 20. 459 3 = ______ = 557
- 7. 143 0 ______ 21. 300 _____ 331
- 10. 213 7 = _____ 22. 659 4 = ____
- 11. 383 5 = _____ 23. 779 5 = ____
- 12. 491 4 = _____ 8 = 944

Challenge

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



Adding Tens to a 3-Digit Number

Calculate the answers to the following:

1. 153 + 30 = _____ 13. 564 + 80 = ____

2. 272 + 20 = _____ 14. 675 + 90 = ____

3. 301 + 60 = _____ 15. 761 + 70 = ____

4. 413 + 70 = _____ 16. 964 + 60 = ____

5. 523 + 40 = 17. 102 + = 172

6. 630 + 20 = _____ 18. 282 + 60 = _____

7. 737 + 50 = _____ + 30 = 424

8. 939 + 60 = 20. 488 + 40 =

9. 142 + 80 = _____ 21. 537 + 90 = ____

10. 267 + 70 = _____ + 30 = 686

11. 398 + 60 = _____ = 850

12. 451 + 50 = _____ 24. 961 + 70 = ____

Challenge

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

Estimating Subtraction:

1. 58 - 32 = 2. 79 - 22 =

My estimate:

My estimate:

My estimate:

My estimate:

My estimate:

3. 104 - 51 = 4. 121 - 33 = My estimate: __ =

5. 129 - 27 =

My estimate:

My estimate:

My estimate:

My estimate:

7. 132 - 17 =

My estimate:

My estimate:

My estimate:

My estimate:

9. 257 - 152 =

My estimate:

10. 353 - 281 =

My estimate:

...

...

Estimated 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.

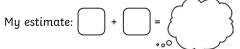
Example

$$1.32 + 59 =$$

My estimate:
$$\begin{bmatrix} 30 \end{bmatrix} + \begin{bmatrix} 60 \end{bmatrix} = 90$$

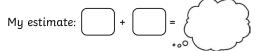
Estimating Addition:

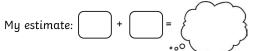
$$3.51 + 53 =$$

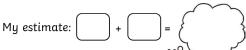




$$7.132 + 19 =$$













Subtracting Tens from a 3-Digit Number

Calculate the answers to the following:

Challenge

In what other calculations could you use 12 - 8 = 5 to help?

Adding Hundreds to a 3-Digit Number

Calculate the answers to the following:

| | ž S | | |
|-----|-------------|-----|--------------|
| 1. | 163 + 500 = | 13. | 549 + 800 = |
| 2. | 345 + 600 = | 14. | 672 + 700 = |
| 3. | 582 + 400 = | 15. | 701 + 900 = |
| 4. | 273 + 300 = | 16. | 927 + 600 = |
| 5. | 561 + 200 = | 17. | 116 + 700 = |
| 6. | 170 + 700 = | 18. | 352 + = 1252 |
| 7. | 207 + 500 = | 19. | 3 = 333 |
| 8. | 719 + 100 = | 20. | 824 + 300 = |
| 9. | 372 + 800 = | 21. | 562 + 900 = |
| 10. | 460 + 700 = | 22. | + 300 = 916 |
| 11. | 508 + 900 = | 23. | 752 + = 1552 |
| 12. | 721 + 500 = | 24. | 911 + 700 = |

Challenge

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

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

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.

| 34 23 57 | 16 59 75 | 92 45 137 |
|------------------|-------------|--------------|
| += | += | += |
| += | | |
| =_ | = | = |
| | = | = |
| | | |
| 87 240 153 | 393 240 153 | 616 1163 547 |
| 87 240 153 += | 393 240 153 | 616 1163 547 |
| | | |
| += | += | += |

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

| 26 | 97 | 123 | 86 | 134 | 48 | 364 213 151 |
|-----|-----|------|-----|-----|-----|--------------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 652 | 589 | 9 63 | 572 | 801 | 229 | 371 912 1283 |
| | | | | | | |
| | | | | | | |
| | | | | | | |





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

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.

| 245 + 356 = | 562 - 347 = |
|-------------|-------------|
| 703 - 459 = | 509 + 389 = |
| 825 - 286 = | 672 + 319 = |
| 592 + 209 = | 913 - 387 = |

Challenge

Explain how you might use the inverse to check this calculation. **541 + 518 + 265 =**

Subtracting Hundreds from a Three Digit Number

Calculate the answers to the following:

Challenge

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

Can you always get to a number between or equal to 100 and 1?

If you use as many sutractions as possible are there any patterns?





Adding 3-Digit and 2-Digit Numbers - No Carrying

Calculate the answers to the following:

Calculate the following calculations:

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

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.

Challenge

Use 2 different methods to calculate and check this calculation. **365 + 87 =** Can you explain which method you find better?





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

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.

| 76 + 45 = | 97 - 38 = |
|-----------|-----------|
| 72 - 48 = | 64 + 38 = |
| 82 - 65 = | 49 + 46 = |
| 93 + 59 = | 68 - 29 = |

Challenge

Explain how you might check your answer to this calculation: 47 + 54 + 35 =

Adding 3-Digit and 2-Digit Numbers - With Carrying

Calculate the answers to the following:

Calculate the following calculations:



Subtracting 2-Digit Numbers from 3-Digit Numbers No Exchanging

Calculate the answers to the following:

Calculate the following calculations:

Subtracting Two 3-Digit Numbers - With Exchanging

Calculate the answers to the following:

Calculate the following calculations:

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Subtracting Two 3-Digit Numbers - No Exchanging

Calculate the answers to the following:

Calculate the following calculations:

Subtracting 2-Digit Numbers from 3-Digit Numbers With Exchanging

Calculate the answers to the following:

Calculate the following calculations:

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Adding Two 3-Digit Numbers - No Carrying

Calculate the answers to the following:

Adding Two 3-Digit Numbers - With Carrying

Calculate the answers to the following:

 ${\it Calculate the following calculations:}$

Calculate the following calculations:

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