## Adding Two 3-Digit Numbers - With Carrying

Calculate the answers to the following:

| $\begin{array}{r} 323 \\ +\quad 518 \\ \hline \end{array}$ | $\begin{array}{r} 607 \\ +228 \\ \hline \end{array}$ | $\begin{array}{r} 507 \\ +463 \\ \hline \end{array}$ | $\begin{array}{r} 319 \\ +\quad 142 \\ \hline \end{array}$ |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
|  |  |  |  |
| 257 | 505 | 672 | 591 |
| +706 | +109 | +243 | + 367 |
|  |  |  |  |
|  |  |  |  |
| 572 | 760 | 822 | 912 |
| +336 | +615 | + 345 | + 461 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 476 | 655 | 379 |  |
| + 485 | 738 +7 | $\begin{array}{r}348 \\ +64 \\ \hline\end{array}$ |  |

Calculate the following calculations:


## Adding 4-Digit Numbers with Carrying

LO: I can add 4-digit numbers with carrying.

| 1 |  | 2 |  | 3 |  | 4 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | + 7806 |  | $\begin{array}{r}+7033 \\ \hline\end{array}$ |  | +2094 |  | +8398 |
| 5 | 8784 | 6 | 8580 | 7 | 9771 | 8 | 5602 |
|  | + 9969 |  | +1887 |  | +8489 |  | +9250 |
| 9 | 2851 | 10 | 8976 | 11 | 6942 | 12 | 7238 |
|  | +2330 |  | $\begin{array}{r}\text { + } 7249 \\ \hline\end{array}$ |  | $\begin{array}{r}69220 \\ + \\ \hline\end{array}$ |  | $\begin{array}{r}7 \\ +5733 \\ \hline\end{array}$ |
| 13 | 4265 | 14 | 8811 | 15 | 1899 | 16 | 6073 |
|  | +8270 |  | $\begin{array}{r}+2787 \\ \hline\end{array}$ |  | +8179 |  | $\begin{array}{r}6 \\ +6379 \\ \hline\end{array}$ |

## Challenge:

1

| $2 \_32$ |
| ---: |
| $+31_{--}$ |
| $-28 \_$ |

2

| 96 _- |
| ---: |
| $+6 \_80$ |
| $-\quad 197$ |

3

| $25 \_7$ |
| ---: |
| $+\quad 39 \_$ |
| $7 \_65$ |

4

| $8 \_2_{-}$ |
| ---: |
| $+\quad 060$ |
| $-08 \_1$ |

## Written methods - subtraction

|  | H | T | U |
| :--- | :---: | :---: | :---: |
|  | 9 | 8 | ${ }^{8} 4$ |
| - | 2 | 7 | 8 |
|  | 7 | 1 | 6 |

First we estimate: $1000-300=700$
We start with the units. We can't take 8 away from 4 so we must rename one of the tens as units. We now have 14 units.
14 subtract 8 is 6 so we put the 6 in the units column.
8 tens subtract 7 tens is 1 ten so we put a 1 in the tens column.
We subtract the hundreds. 9 hundred subtract 2 hundred is 7 hundred. Put a 7 in the hundreds column.

We check the answer against our estimate.

1 Complete the subtraction problems:


When a problem asks us to find the difference, we subtract. We always start with the larger number.

2 Solve these to find the difference problems:
a How far from
Showtown to
Ringer?

b What is the distance from Normanville to Tidings?

c What is the distance from Roper to Eagle Bay?



## Subtracting Two 3-Digit Numbers - With Exchanging

Calculate the answers to the following:

| 451 |
| ---: |
| $-\quad 218$ |


| 840 |
| ---: |
| $-\quad 525$ |


| 472 |
| ---: |
| -238 |

$\qquad$

| $\begin{array}{r} 690 \\ -526 \end{array}$ | $\begin{array}{r} 726 \\ +419 \end{array}$ | $\begin{array}{r} 427 \\ -\quad 233 \end{array}$ | $\begin{array}{r} 519 \\ -450 \end{array}$ |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
|  |  |  |  |
| 353 | 627 | 622 | 951 |
| 136 | - 471 | - 394 | - 652 |

Calculate the following calculations:


## Decimals Addition

Work out the calculations.

| a) | $\begin{array}{r} £ 3.45 \\ +£ 5.92 \\ \hline \end{array}$ | b) | $\begin{array}{r} £ 8.45 \\ +£ 4.21 \\ \hline \end{array}$ | c) | $\begin{array}{r} £ 4.11 \\ +£ 6.47 \\ \hline \end{array}$ | d) | $\begin{array}{r} £ 4.21 \\ +£ 1.54 \\ \hline \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| e) | $\begin{array}{r} £ 5.01 \\ +£ 7.42 \\ \hline \end{array}$ | f) | $\begin{array}{r} £ 6.42 \\ +£ 2.98 \\ \hline \end{array}$ | g) | $\begin{array}{r} 6.55 m \\ +\quad 8.25 m \\ \hline \end{array}$ | h) | $\begin{array}{r} 1.44 \mathrm{~m} \\ +\quad 6.77 \mathrm{~m} \\ \hline \end{array}$ |
| i) | $\begin{array}{r} 2.01 \mathrm{~m} \\ +4.67 \mathrm{~m} \\ \hline \end{array}$ | j) | $\begin{array}{r} 1.67 \mathrm{~m} \\ +6.19 \mathrm{~m} \\ \hline \end{array}$ | k) | $\begin{array}{r} 1.44 \mathrm{~m} \\ +\quad 6.77 \mathrm{~m} \\ \hline \end{array}$ | l) | $\begin{array}{r} 9.54 \mathrm{~m} \\ +\quad 7.11 \mathrm{~m} \\ \hline \end{array}$ |
| 1) $£ 4.95+£ 2.78=$ |  |  |  | 5) $£ 1.24+£ 3.11=$ |  |  |  |
| 2) $£ 5.11+£ 9.45=$ |  |  |  | 6) $£ 5.32+£ 6.41=$ |  |  |  |
| 3) $£ 4.21+£ 8.47=$ |  |  |  | 7) $£ 6.14+£ 1.48=$ |  |  |  |
| 4) $£$ | $1+£ 2.21$ |  |  |  | 5 + £1.54 = |  |  |

1. I spent $£ 7.43$ in one shop and then spent $£ 2.50$ in another shop. How much did I spend altogether?
2. Jasmine had 1.35 m of ribbon and her sister had 4.78 m . How much ribbon did they have altogether?
3. Jacob is measuring his bedroom. It is an odd shape. The lengths of the walls are $5.4 \mathrm{~m}, 4.3 \mathrm{~m}, 7.3 \mathrm{~m}$ and 7.9 m . What is the total perimeter of his room?



| 0 |
| :--- |
|  |
|  |

$\overline{\varepsilon b^{+}}$
$78 \varepsilon$
$0 \angle b 9$
$8 \angle 乙 8$ (u





## Adding Ones to a 3-Digit Number

Calculate the answers to the following:

1. $136+3=$ $\qquad$ 13. $529+4=$ $\qquad$
2. $212+4=$ $\qquad$ 14. $645+9=$ $\qquad$
3. $381+6=$ $\qquad$ 15. $713+8=$ $\qquad$
4. $494+5=$ $\qquad$ 16. $995+6=$ $\qquad$
5. $533+4=$ $\qquad$ 17. $165+7=$ $\qquad$
6. $620+7=$ $\qquad$ 18. $252+6=$ $\qquad$
7. $725+4=$ $\qquad$ 19. $395+9=$ $\qquad$
8. $952+7=$
9. $478+1=$ $\qquad$
10. $165+8=$ $\qquad$ 21. $546+7=$ $\qquad$
11. $224+7=$ $\qquad$ 22. $659+3=$ $\qquad$
12. $388+6=$ $\qquad$ 23. $765+3=$ $\qquad$
13. $478+5=$ $\qquad$ 24. $971+8=$ $\qquad$

## Challenge

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

## Subtracting Ones from a 3-Digit Number

Calculate the answers to the following:

1. $166-3=$ $\qquad$ 13. $571-5=$ $\qquad$
2. $295-4=$ $\qquad$ 14. $678-9=$ $\qquad$
3. $307-5=$ $\qquad$ 15. $722-6=$ $\qquad$
4. $489-7=$ $\qquad$ 16. $982-4=$ $\qquad$
5. $578-4=$ $\qquad$ 17. $122-6=$ $\qquad$
6. $636-2=$ $\qquad$ 18. 279 = 271
7. $794-3=$ $\qquad$ 19. $\qquad$ + = 329
8. $959-8=$ $\qquad$ 20. $459-3=$ $\qquad$
9. $145-8=$ $\qquad$ 21. $566+$ $=557$
10. $213-7=$ $\qquad$ 22. $659-4=$ $\qquad$
11. $383-5=$ $\qquad$ 23. $779-5=$ $\qquad$
12. $491-4=$ $\qquad$ 24. $\qquad$ $+8=944$

## 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. $153+30=$ $\qquad$ 13. $564+80=$ $\qquad$
2. $272+20=$ $\qquad$ 14. $675+90=$ $\qquad$
3. $301+60=$ $\qquad$ 15. $761+70=$ $\qquad$
4. $413+70=$ $\qquad$ 16. $964+60=$ $\qquad$
5. $523+40=$ $\qquad$ 17. $102+$ $=172$
6. $630+20=$ $\qquad$ 18. $282+60=$ $\qquad$
7. $737+50=$ $\qquad$ 19. $\qquad$ $+30=424$
8. $939+60=$ $\qquad$ 20. $488+40=$ $\qquad$
9. $142+80=$ $\qquad$ 21. $537+90=$ $\qquad$
10. $267+70=$ $\qquad$ 22. $\qquad$ $+30=686$
11. $398+60=$ $\qquad$ 23. $770+$ $=850$
12. $451+50=$ $\qquad$ 24. $961+70=$ $\qquad$

## Challenge

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

## Subtracting Tens from a 3-Digit Number

Calculate the answers to the following:
$\qquad$

1. $178-30=$
2. $537-50=$ $\qquad$
3. $282-40=$ $\qquad$ 14. $612-70=$ $\qquad$
4. $377-50=$ $\qquad$ 15. $727-60=$ $\qquad$
5. $495-70=$ $\qquad$ 16. $933-90=$ $\qquad$
6. $581-40=$ $\qquad$
7. 134 - $\qquad$ $=74$
8. $625-20=$ $\qquad$ 18. $213-80=$ $\qquad$
9. $767-50=$ $\qquad$ 19. $\qquad$ $-70=276$
10. $992-80=$ $\qquad$ 20. $403-30=$ $\qquad$
11. $131-80=$ $\qquad$ 21. $\qquad$ $-90=486$
12. $224-60=$ $\qquad$ 22. $619-20=$ $\qquad$
13. $357-90=$ $\qquad$ 23. 717 $=647$
14. $413-30=$ $\qquad$ 24. $941-50=$ $\qquad$

## Challenge

Explain what other calculations you might use 13-8=5.

## Adding Hundreds to a 3-Digit Number

Calculate the answers to the following:

1. $163+500=$ $\qquad$ 13. $549+800=$ $\qquad$
2. $345+600=$ $\qquad$ 14. $672+700=$ $\qquad$
3. $582+400=$ $\qquad$ 15. $701+900=$ $\qquad$
4. $273+300=$ $\qquad$ 16. $927+600=$ $\qquad$
5. $561+200=$ $\qquad$ 17. $116+700=$ $\qquad$
6. $170+700=$ $\qquad$ 18. $352+$ $=1252$
7. $207+500=$ $\qquad$ 19. $\qquad$ $+400=859$
8. $719+100=$ $\qquad$ 20. $824+300=$ $\qquad$
9. $372+800=$ $\qquad$ 21. $562+900=$ $\qquad$
10. $460+700=$ $\qquad$ 22. $\qquad$ $+300=916$
11. $508+900=$ $\qquad$ 23. $752+$ $\qquad$ $=1552$
12. $721+500=$ $\qquad$ 24. $911+700=$ $\qquad$

## Challenge

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

## Subtracting Hundreds from a Three Digit Number

Calculate the answers to the following:

1. $353-200=$ $\qquad$ 9. $268-200=$ $\qquad$
2. $416-400=$ $\qquad$ 10. $416-100=$ $\qquad$
3. $531-300=$ $\qquad$ 11. $547-300=$ $\qquad$
4. $789-500=$ $\qquad$ 12. $346-100=$ $\qquad$
5. $564-300=$ $\qquad$ 13. $564-400=$ $\qquad$
6. $820-600=$ $\qquad$ 14. $893-600=$ $\qquad$
7. $707-500=$ $\qquad$ 15. $507-500=$ $\qquad$
8. $919-700=$ $\qquad$ 16. $919-400=$ $\qquad$

## Challenge

Take any three 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 sutractions as possible are there any patterns?

## Missing Number 3-Digit Addition

 Calculate the missing numbers in these calculations.
$\begin{array}{r}8 \ldots 6 \\ +\quad 44 \\ \hline 129 \\ \hline\end{array}$

$\begin{array}{r}89 \\ +2^{8} \quad 1 \\ \hline 45= \\ \hline\end{array}$

$\begin{array}{r}+31 \\ +96 \ldots \\ \hline 10 \ldots 2 \\ \hline\end{array}$

$\begin{array}{r}91 \ldots \\ +\quad 3 \ldots 5 \\ \hline-\quad 24 \\ \hline \hline\end{array}$

$\begin{array}{r}9 \quad 8 \\ +\quad 41 \\ \hline 176= \\ \hline\end{array}$




