Year 4 Maths Addition and Subtraction Workbook
# Year 4 Maths Addition and Subtraction Workbook

## Year 4 Programme of Study – Addition and Subtraction

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### Large Numbers Addition Worksheet

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<th>a)</th>
<th>b)</th>
<th>c)</th>
<th>d)</th>
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<td>120</td>
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<td>+</td>
<td>309</td>
<td>123</td>
<td>222</td>
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<td>592</td>
<td>81</td>
<td>5916</td>
<td>3956</td>
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<tr>
<td>+</td>
<td>92</td>
<td>317</td>
<td>126</td>
<td>276</td>
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<tr>
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<td>3769</td>
<td>46</td>
<td>4924</td>
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<td>277</td>
<td>6928</td>
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<td>+</td>
<td>3358</td>
<td>197</td>
<td>384</td>
<td>846</td>
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<td>m)</td>
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<td>384</td>
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<td>946</td>
<td>54</td>
<td>365</td>
<td>2395</td>
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<tr>
<td>+</td>
<td>855</td>
<td>365</td>
<td>2857</td>
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<tr>
<td>r)</td>
<td>386</td>
<td>2395</td>
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<tr>
<td></td>
<td>2857</td>
<td>365</td>
<td>2857</td>
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</tbody>
</table>
Missing Number 3-Digit Addition

Calculate the missing numbers in these calculations.
Addition Pyramids Worksheet 1

Use addition and subtraction calculations to complete these pyramids. The first one has been done for you.

1)  
\[
\begin{array}{c}
\hline
50 & \hline \\
30 & \hline \\
40 & \hline \\
\end{array}
\]

2)  
\[
\begin{array}{c}
\hline
100 & \hline \\
110 & \hline \\
60 & \hline \\
70 & \hline \\
\end{array}
\]

3)  
\[
\begin{array}{c}
\hline
140 & \hline \\
110 & \hline \\
60 & \hline \\
50 & \hline \\
\end{array}
\]

4)  
\[
\begin{array}{c}
\hline
270 & \hline \\
150 & \hline \\
30 & \hline \\
90 & \hline \\
\end{array}
\]

5)  
\[
\begin{array}{c}
\hline
170 & \hline \\
\hline \\
50 & \hline \\
30 & \hline \\
\end{array}
\]

6)  
\[
\begin{array}{c}
\hline
450 & \hline \\
200 & \hline \\
120 & \hline \\
\hline \\
\end{array}
\]

7)  
\[
\begin{array}{c}
\hline
270 & \hline \\
\hline \\
50 & \hline \\
130 & \hline \\
\end{array}
\]

8)  
\[
\begin{array}{c}
\hline
200 & \hline \\
95 & \hline \\
35 & \hline \\
\hline \\
\end{array}
\]

9)  
\[
\begin{array}{c}
\hline
290 & \hline \\
155 & \hline \\
\hline \\
70 & \hline \\
\end{array}
\]

10)  
\[
\begin{array}{c}
\hline
125 & \hline \\
\hline \\
125 & \hline \\
70 & \hline \\
\end{array}
\]

11)  
\[
\begin{array}{c}
\hline
540 & \hline \\
\hline \\
255 & \hline \\
70 & \hline \\
\end{array}
\]

12)  
\[
\begin{array}{c}
\hline
85 & \hline \\
175 & \hline \\
60 & \hline \\
\hline \\
\end{array}
\]
Use addition and subtraction calculations to complete these pyramids. The first one has been done for you.

1)  
   320 150  
   205 135  
   395  

2)  
   210 315  
   105 265  
   340  

3)  
   815  
   105 265  
   810  

4)  
   340 375  
   205 135  
   340  

5)  
   345 120  
   280  
   810  

6)  
   595  
   280  
   899  

7)  
   440 260  
   135  
   635  

8)  
   710 135  
   635  
   415  

9)  
   580  
   635  
   635  
   1590  

10)  
   365 470  
   835  
   1900  

11)  
   180 435  
   365  
   755  

12)  
   380  
   1345  
   1155  
   1345
Addition Pyramids Worksheet 3

Use addition and subtraction calculations to complete these pyramids. The first one has been done for you.

1)  
\[
\begin{array}{c}
1319 \\
681 \\
683 \\
254 \\
427 \\
211 \\
\end{array}
\]

2)  
\[
\begin{array}{c}
442 \\
400 \\
42 \\
178 \\
\end{array}
\]

3)  
\[
\begin{array}{c}
655 \\
233 \\
43 \\
\end{array}
\]

4)  
\[
\begin{array}{c}
231 \\
752 \\
\end{array}
\]

5)  
\[
\begin{array}{c}
389 \\
199 \\
211 \\
\end{array}
\]

6)  
\[
\begin{array}{c}
899 \\
610 \\
111 \\
\end{array}
\]

7)  
\[
\begin{array}{c}
325 \\
37 \\
209 \\
\end{array}
\]

8)  
\[
\begin{array}{c}
797 \\
273 \\
113 \\
\end{array}
\]

9)  
\[
\begin{array}{c}
1564 \\
743 \\
534 \\
\end{array}
\]

10)  
\[
\begin{array}{c}
1076 \\
709 \\
244 \\
\end{array}
\]

11)  
\[
\begin{array}{c}
1083 \\
641 \\
122 \\
\end{array}
\]

12)  
\[
\begin{array}{c}
922 \\
456 \\
101 \\
\end{array}
\]

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Repeated Subtraction of a Factor

The numbers on the left in circles are multiples of the number on the right in boxes – keep subtracting the number in the boxes until you reach ‘0’. If you don’t reach 0, check your answers to find out where you went wrong. You may need to jot some calculations down.

e.g.

\[
\begin{array}{cccccccc}
64 & - 16 & 48 & - 16 & 32 & - 16 & 16 & - 16 & 0 \\
588 & & & & & & & & 147 \\
1488 & & & & & & & & 362 \\
1716 & & & & & & & & 429 \\
5704 & & & & & & & & 1426 \\
\end{array}
\]
Finding Missing Numbers in Column Subtraction Calculations

Use these digit cards just once to fill all of the gaps in the calculations.

0 1 2 3 4 5 6 7 8 9

6 5 7 3 3 8 7 1
- 3 5 9 4 5 2 - 1 9 9
2 9 0 2 8 4 6 7 0

9 1 □ 1 □ 6 9 2 6 1 2
- 8 7 8 2 7 5 1 7 □ 8
4 1 1 0 9 4 8 5 4

3 2 6 9 □ 1 2 □ 8 0 8
- 1 6 5 2 6 9 3 - 4 7 8 2
□ 6 1 7 4 7 1 9 3 2 2 6
Estimate Answers Speed Challenge

How many points can you score on the speed challenge? Set up a countdown timer for your chosen time limit and use your rounding skills to estimate the answers to as many questions as you can. When the time is up, check that your answers were in the allowable range. Score 1 point for each accurate estimate from list 1, 2 points from list 2, 3 points for list 3 and 4 points for list 4. No extra points for fully correct answers! Good luck!

<table>
<thead>
<tr>
<th>List 1</th>
<th>Estimate</th>
<th>List 2</th>
<th>Estimate</th>
<th>List 3</th>
<th>Estimate</th>
<th>List 4</th>
<th>Estimate</th>
</tr>
</thead>
<tbody>
<tr>
<td>17+39</td>
<td>43+128</td>
<td>123+104</td>
<td></td>
<td>1523+1026</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21+48</td>
<td>17+162</td>
<td>136+153</td>
<td></td>
<td>1789+2391</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>33+59</td>
<td>29+194</td>
<td>178+329</td>
<td></td>
<td>3456+4567</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>39+42</td>
<td>34+208</td>
<td>346+252</td>
<td></td>
<td>4028+3876</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>58+78</td>
<td>67+254</td>
<td>276+217</td>
<td></td>
<td>5997 + 4302</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>29+83</td>
<td>89+287</td>
<td>302+386</td>
<td></td>
<td>4808 + 3007</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>44+99</td>
<td>98+355</td>
<td>457+342</td>
<td></td>
<td>4512 + 5490</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>77+89</td>
<td>17+578</td>
<td>489+512</td>
<td></td>
<td>7 + 5674</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>87+92</td>
<td>85+475</td>
<td>299+992</td>
<td></td>
<td>2987 + 7561</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>98+97</td>
<td>78+967</td>
<td>342+876</td>
<td></td>
<td>4813 + 8564</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Points:
# Using Inverse Operations to Check Addition and Subtraction Calculations

Check the answers to these calculations using the inverse operation and mark them right or wrong!

<table>
<thead>
<tr>
<th>Calculation</th>
<th>Check with Inverse</th>
<th>Correct?</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>e.g.</strong></td>
<td>277 + 278 = 555</td>
<td>Wrong!</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Calculation</th>
<th>Check with Inverse</th>
<th>Correct?</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
1. If Kim flies from New York to Cairo via London, how much change will she get from £1000?

2. Taj wants to fly from London to Sydney via Tokyo. How much will he save if he flies direct to Sydney?

3. For business class flights the price increases by £200 per flight. How much would it cost Joy to fly business class from London to Tokyo? How much change would she get from £1000?

4. Fernando lives in Buenos Aires and wants to go on holiday to Tokyo. Which would be the cheapest route for him to take?

5. Mirai wants to get from New York to Tokyo. What is the cheapest route for her to take?

6. Richard lives in London. He wants to visit Cairo and New York and return home. He only has £1500. Can he do it and if so how much will he have left?
# Solving Two Step Addition and Subtraction Word Problems

<table>
<thead>
<tr>
<th>No.</th>
<th>Question</th>
<th>Calculation required (Do brackets first!)</th>
<th>Method</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>e.g.</td>
<td>The cinema has 700 seats. 113 adults and 276 children come to see the film. How many empty seats are there?</td>
<td>$700 - (113 + 276)$</td>
<td>$1 \ 1 \ 3$</td>
<td>$311$ seats are empty.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>$2 \ 7 \ 6$</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>$3 \ 8 \ 9$</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>$6 \ 9 \ 0 \ 0$</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>$3 \ 1 \ 1$</td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>Dorothy is saving her money for a new bike costing £286. If she has already saved £39 and is then given £59 for her birthday, how much more does she need to save?</td>
<td>$700 - (113 + 276)$</td>
<td>$1 \ 1 \ 3$</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>$2 \ 7 \ 6$</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>$3 \ 8 \ 9$</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>$6 \ 9 \ 0 \ 0$</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>$3 \ 1 \ 1$</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>A study of 900 people found that 687 were right handed, 174 were left handed and the remainder were ambidextrous (could use either hand). How many were ambidextrous?</td>
<td>$700 - (113 + 276)$</td>
<td>$1 \ 1 \ 3$</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>$2 \ 7 \ 6$</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>$3 \ 8 \ 9$</td>
<td></td>
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<td></td>
<td></td>
<td>$6 \ 9 \ 0 \ 0$</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>$3 \ 1 \ 1$</td>
<td></td>
</tr>
<tr>
<td>No.</td>
<td>Question</td>
<td>Calculation required (Do brackets first!)</td>
<td>Method</td>
<td>Answer</td>
</tr>
<tr>
<td>-----</td>
<td>----------</td>
<td>----------------------------------------</td>
<td>--------</td>
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</tr>
<tr>
<td>3.</td>
<td>The crisp factory needs to make 875 bags an hour. If a machine breaks down and the factory only makes 323 bags in one hour, how many does it need to make in the next hour to catch up?</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>4.</td>
<td>Dave earns £1485 a month as a bus driver and his wife earns £1760 as a teacher. If Dave gets a pay rise of £217 a month how much less than his wife does he earn?</td>
<td></td>
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</tr>
<tr>
<td>5.</td>
<td>If William Shakespeare was born in 1564 and lived to be 52 years old, how many years ago did he die?</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>