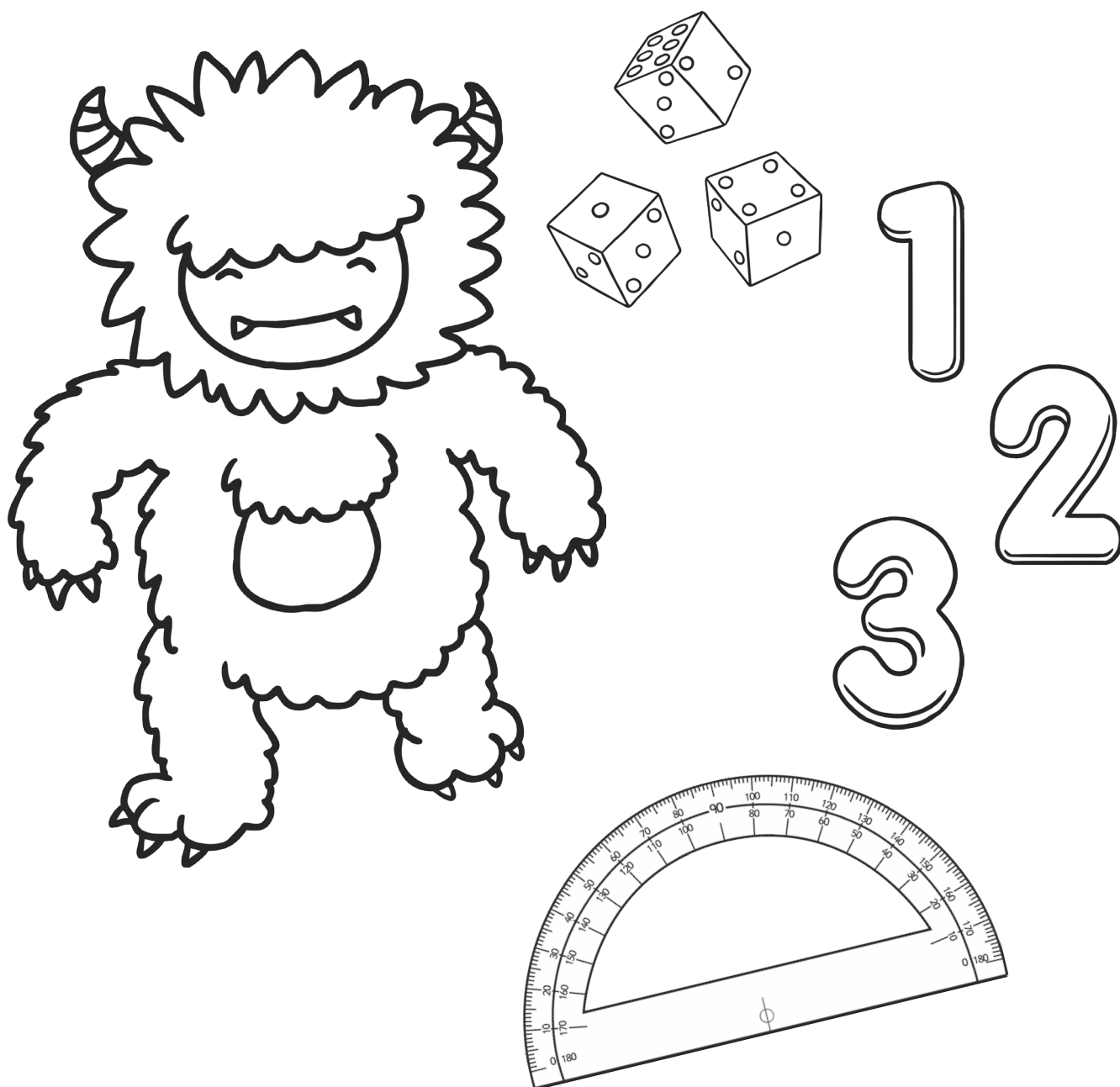


# Year 3 Maths Number and Place Value Workbook



# Home Learning Year 3 Maths

## Workbook Pack

### Year 3 Programme of Study - Number and Place Value

Statutory Requirements	Worksheet	Page Number	Notes
Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number	Counting in 4s, 8s, 50s and 100s worksheet. 10 More 10 Less Worksheet 100 More 100 Less Robots Activity Sheets 1, 2 and 3	3 - 8	
Recognise the place value of each digit in a three-digit number (hundreds, tens, ones)	Maths Magician Partitioning Worksheet Hundreds, Tens and Units Hundreds and Ones Number Partitioning Worksheet	9 - 12	
Compare and order numbers up to 1000	Ordering Numbers to 1000 Worksheet 1 and 2	13 - 14	
Identify, represent and estimate numbers using different representations	Estimate Addition Calculations Worksheet Estimate Subtraction Calculation Worksheet Estimate Money Calculations Worksheet Representing Numbers Using Base 10 Estimate on 0-1000 Number Line Worksheet Estimate on Different Number Lines Worksheet	15 - 20	
Read and write numbers up to 1000 in numerals and in words	Writing Numbers in Words	21 - 23	
Solve number problems and practical problems involving these ideas.	Estimation Reading Speedometers Solving Number Problems Using Number Representation	24 - 27	

## Counting in 4s, 8s, 50s and 100s

Complete the following sequences:

a) \_\_\_ 8 12 16 20 \_\_\_

b) 64 56 \_\_\_ 40 \_\_\_ 24

c) \_\_\_ 100 150 200 \_\_\_ 300

d) 900 \_\_\_ \_\_\_ 600 500 400

e) 56 \_\_\_ 64 68 \_\_\_ 76

f) \_\_\_ 64 56 \_\_\_ 40 32

g) 350 400 \_\_\_ 500 \_\_\_ 600

h) 1100 \_\_\_ \_\_\_ 800 700 600

i) \_\_\_ \_\_\_ 84 80 76 72

j) 80 88 \_\_\_ \_\_\_ 112 120

Continue the following sequences:

k) 4 8 12 \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_

l) 8 16 24 \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_

m) 50 100 150 \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_

n) 100 200 300 \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_

o) 80 84 88 \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_

p) 1250 1200 1150 \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_

q) 144 136 128 \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_

r) 1500 1400 1300 \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_

s) 124 120 116 \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_

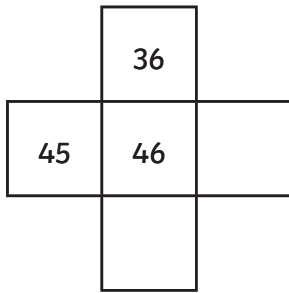


### Challenge

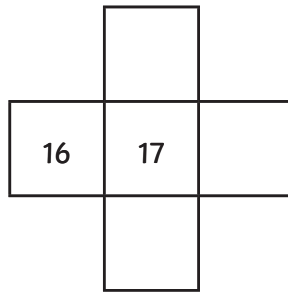
Explain the relationship between counting in 4s and 8s and compare this to the relationship between counting in 50s and 100s.

1. Can you fill in the missing numbers in these pieces snipped from number squares?  
Don't forget you can have number squares that are bigger than 0-100

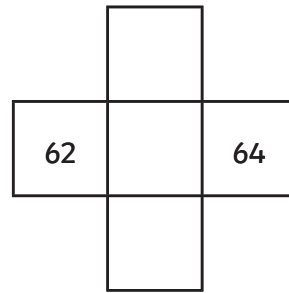
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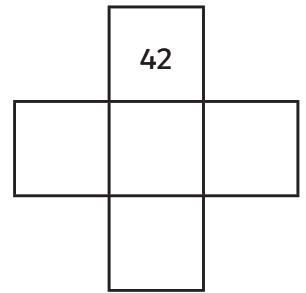
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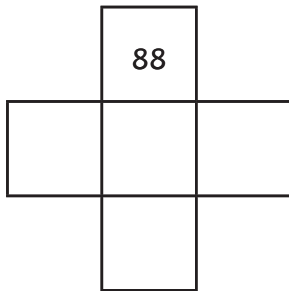
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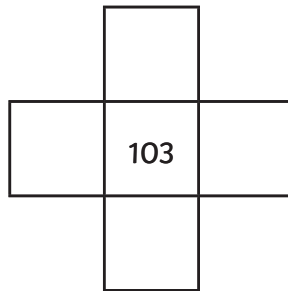
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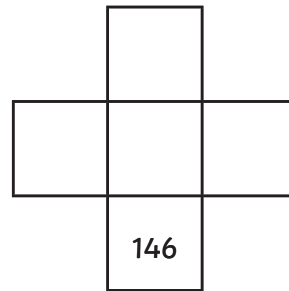
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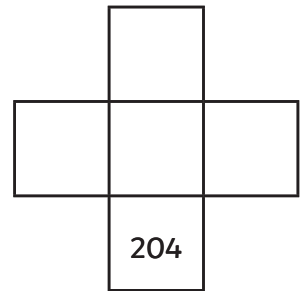
6.



7.



8.



2. Look at the amounts these children have saved. How much would they have if they spent £10 or if they saved £10 more?

1.

- £10	£37	+ £10
-------	-----	-------

2.

	£13	
--	-----	--

3.

	£48	
--	-----	--

4.

	£93	
--	-----	--

5.

	£109	
--	------	--

6.

	£131	
--	------	--

7.

	£10	
--	-----	--

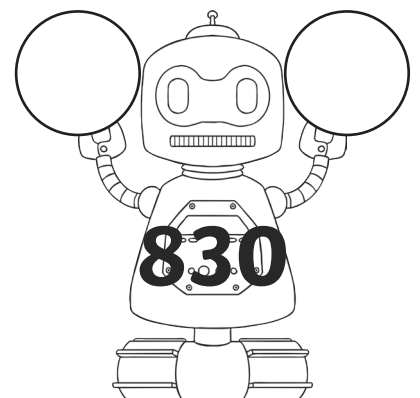
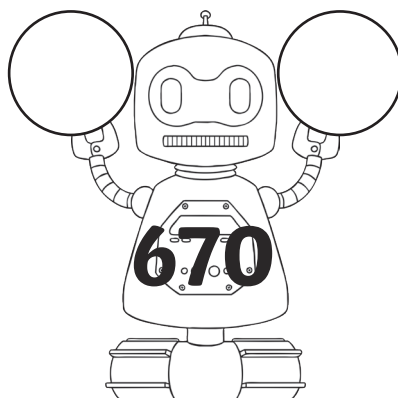
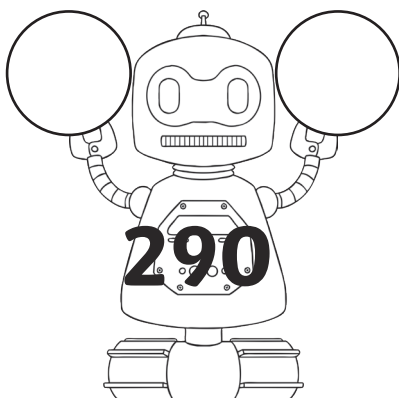
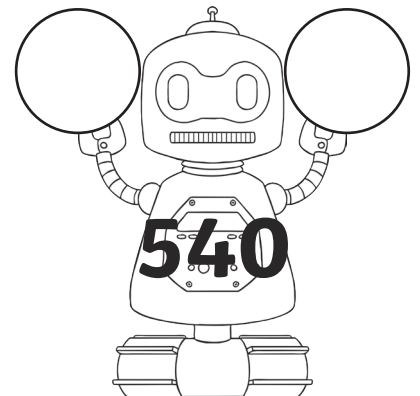
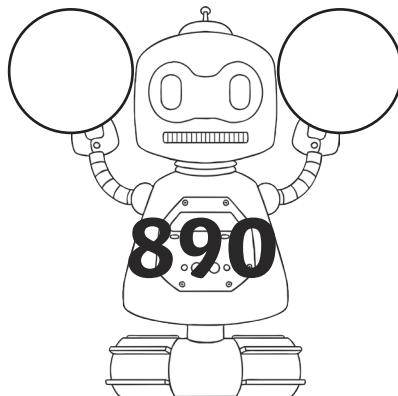
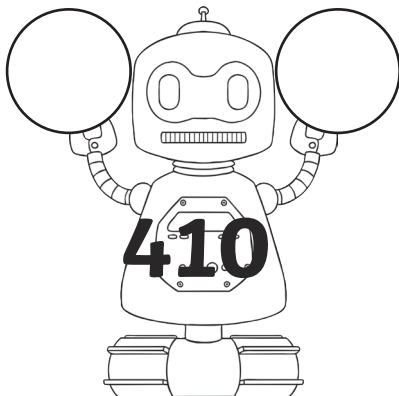
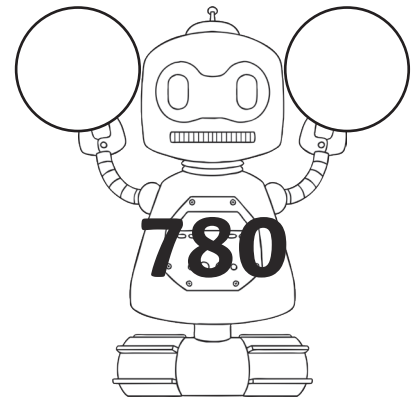
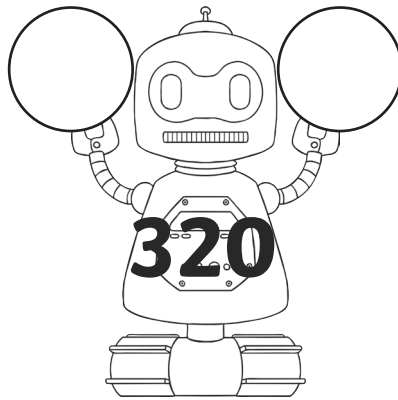
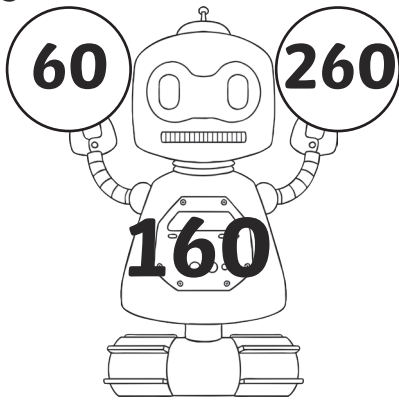
8.

	£198	
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# 100 More and 100 Less Worksheet 1

Can you find 100 more than and 100 less than the number in the robot's tummy?

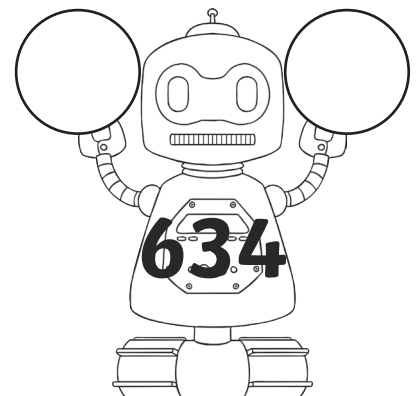
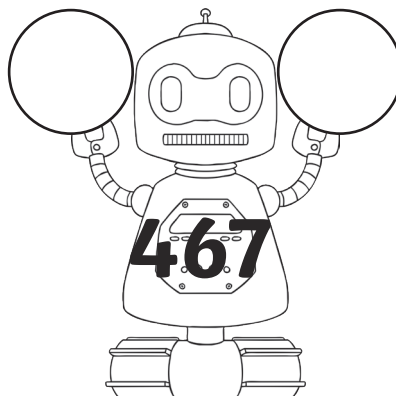
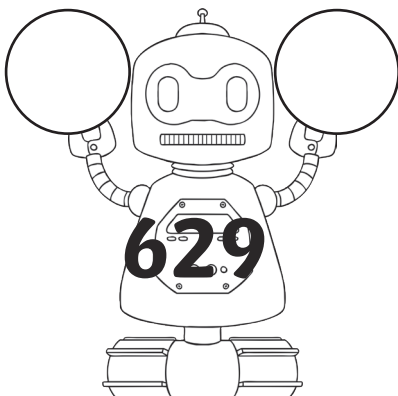
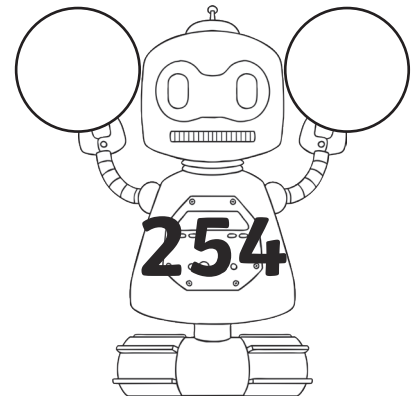
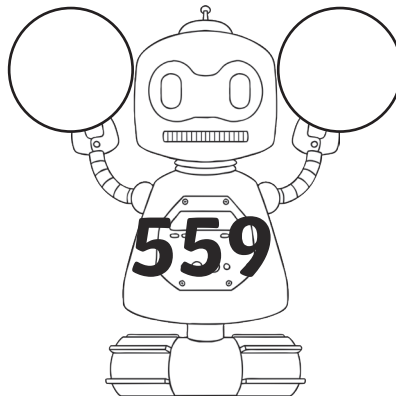
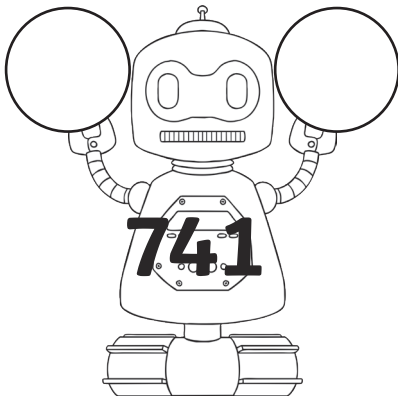
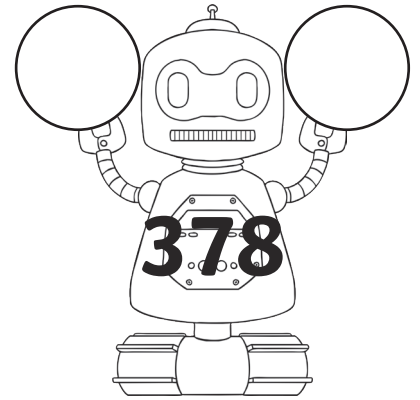
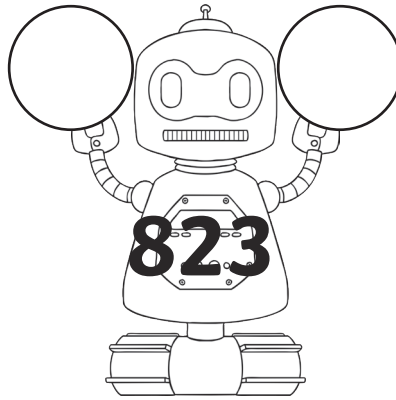
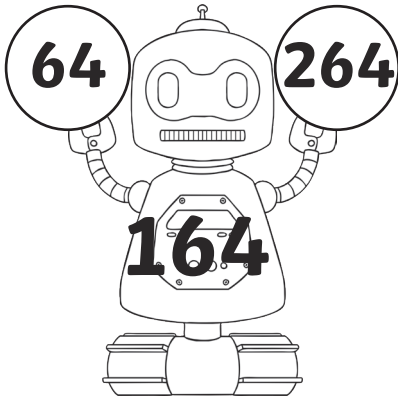
E.g.



## 100 More and 100 Less Worksheet 2

Can you find 100 more than and 100 less than the number in the robot's tummy?

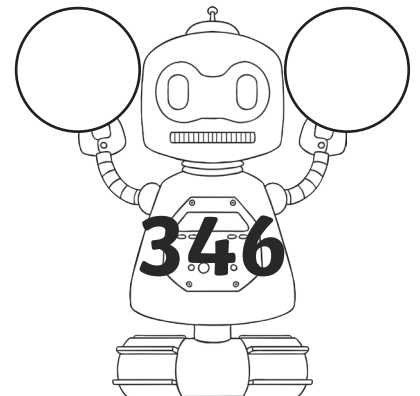
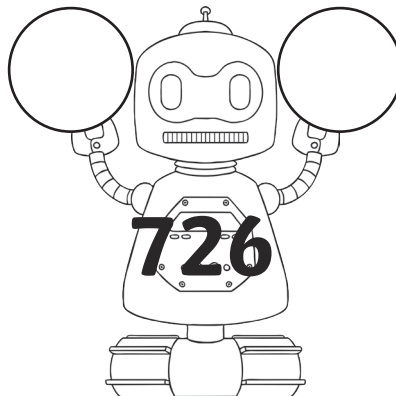
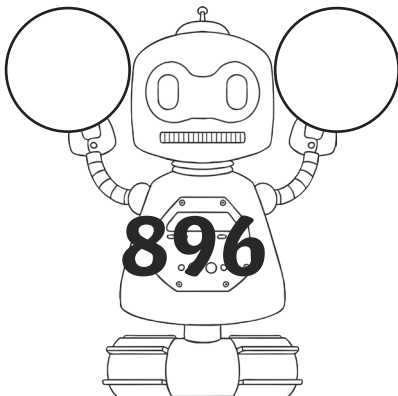
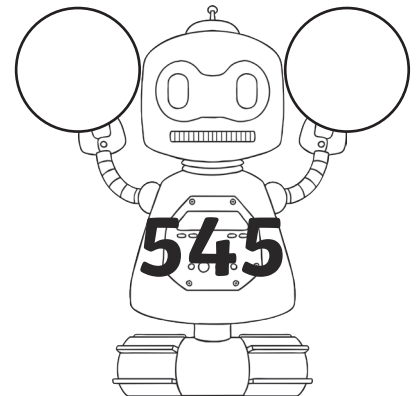
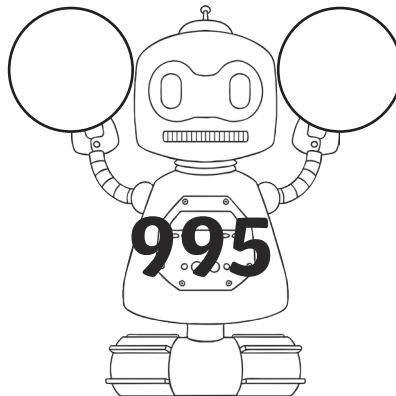
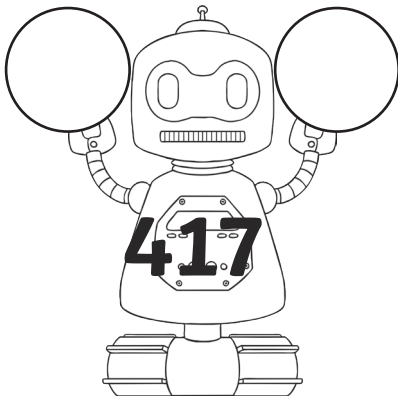
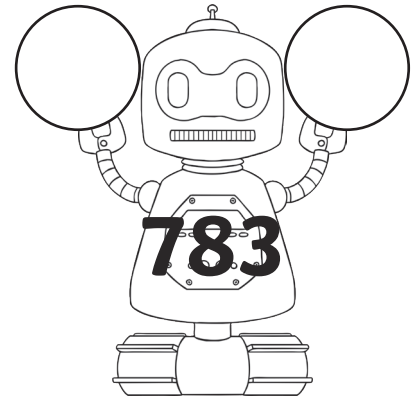
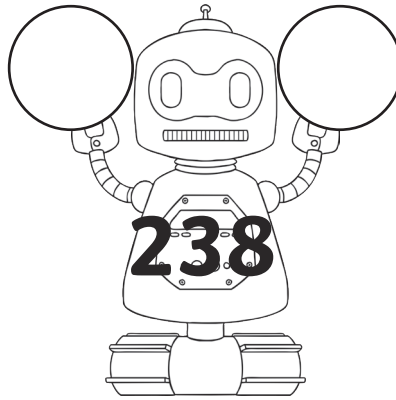
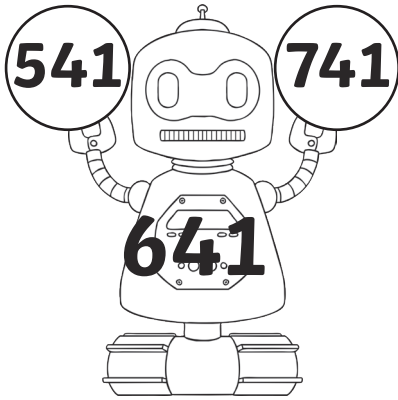
E.g.



## 100 More and 100 Less Worksheet 3

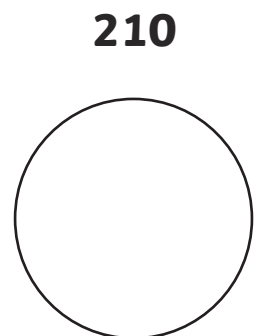
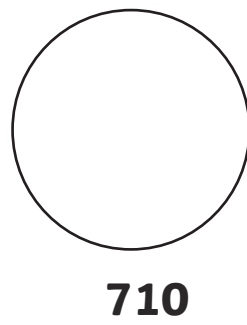
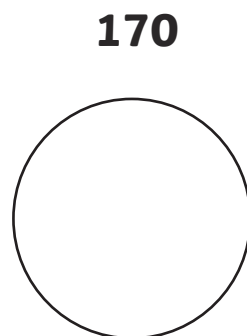
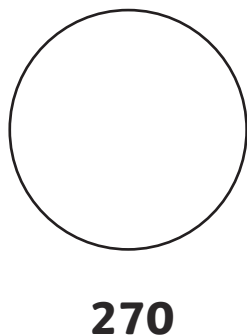
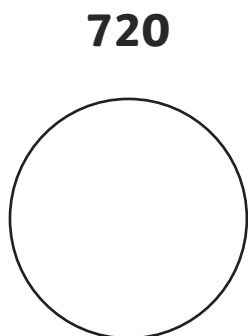
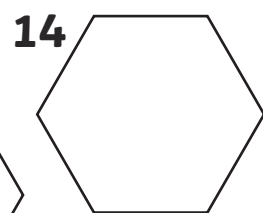
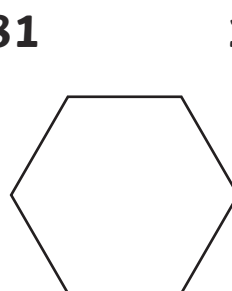
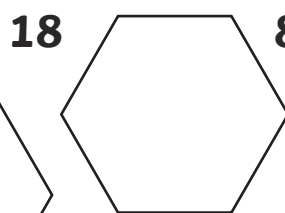
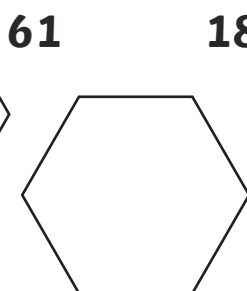
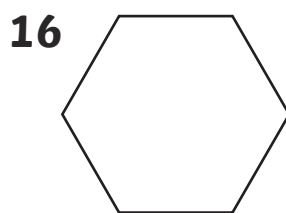
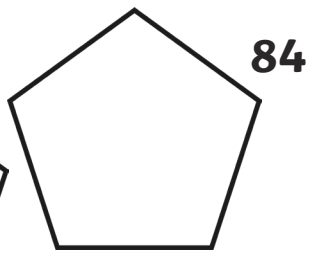
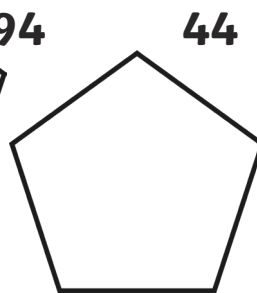
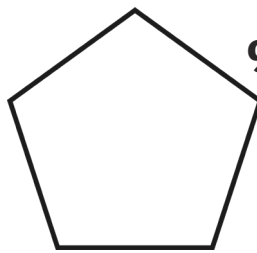
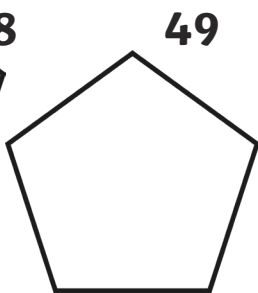
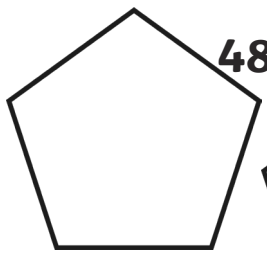
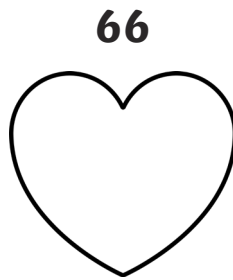
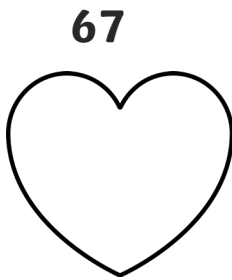
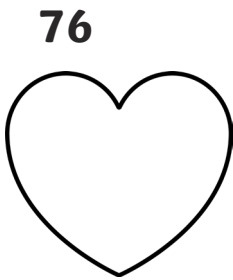
Can you find 100 more than and 100 less than the number in the robot's tummy?

E.g.



# Ordering numbers to 1000 Worksheet 1

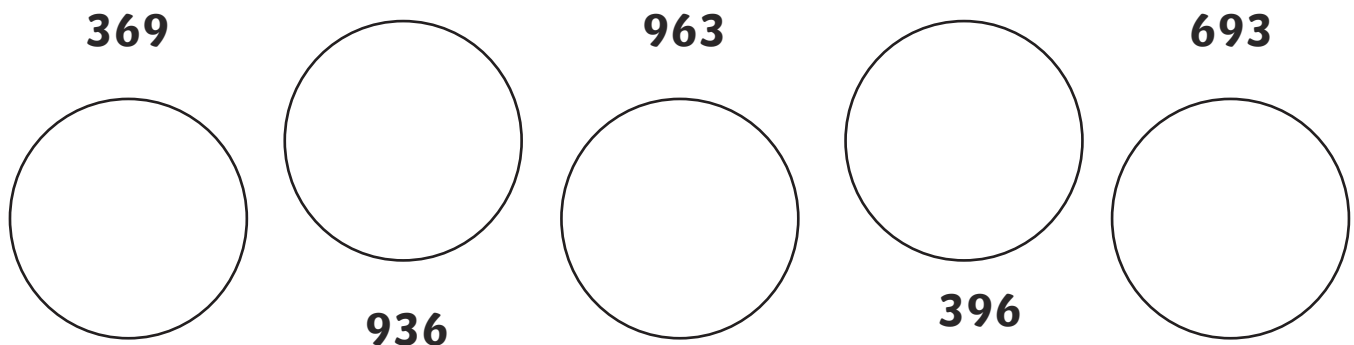
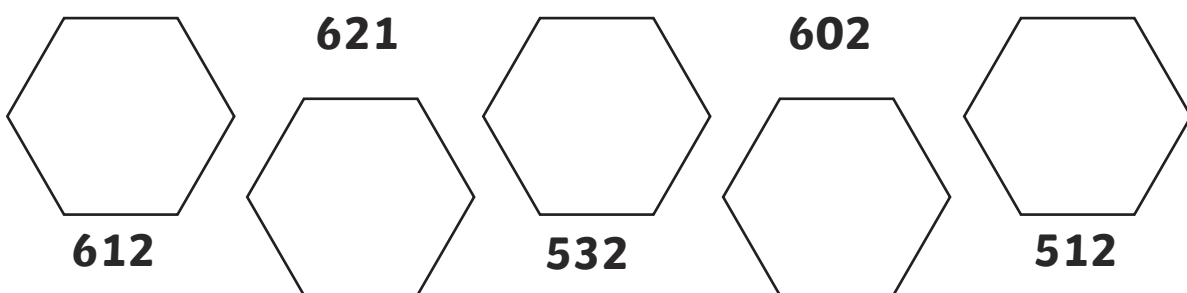
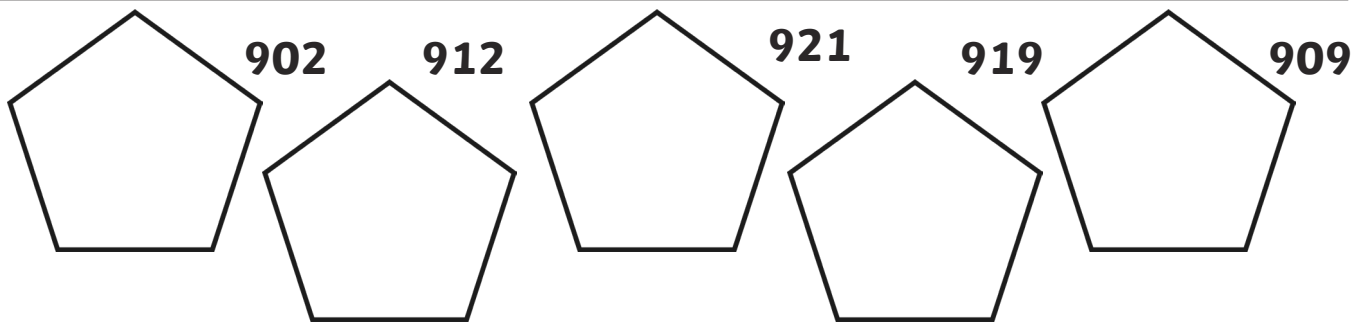
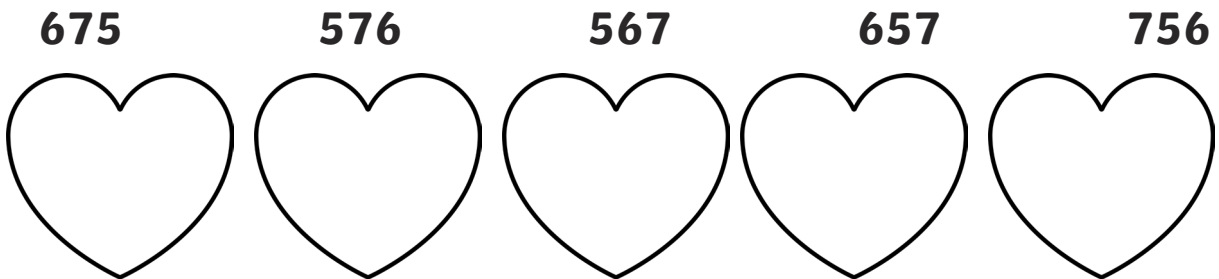
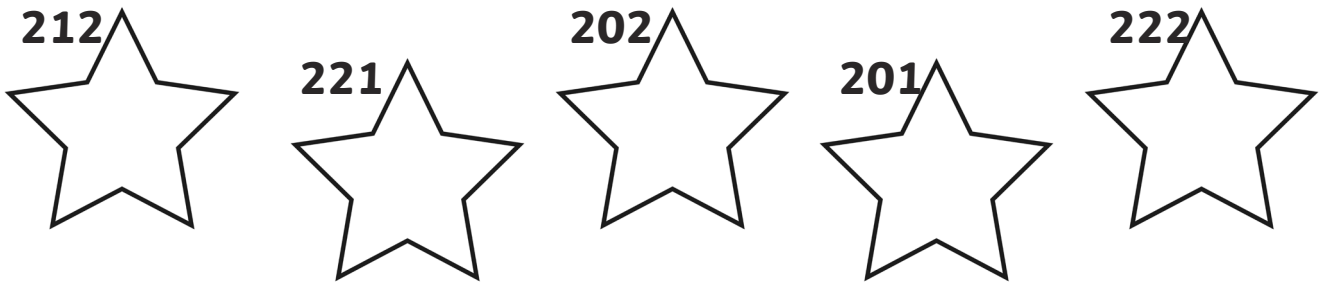
Fill in the spaces below with the numbers in order from smallest to largest.





## Ordering numbers to 1000 Worksheet 2

Fill in the spaces below with the numbers in order from smallest to largest.



# Estimating Addition Calculations

<p>1. Which of these calculations give an answer of about 50?</p> <p><math>34 + 17</math> <math>13 + 45</math> <math>28 + 31</math> <math>45 + 18</math></p>	<p>2. Which of these calculations give an answer of about 60?</p> <p><math>37 + 23</math> <math>31 + 16</math> <math>17 + 53</math> <math>39 + 29</math></p>	<p>3. Which of these calculations give an answer of about 80?</p> <p><math>72 + 25</math> <math>47 + 31</math> <math>29 + 32</math> <math>35 + 27</math></p>
<p>4. Which of these calculations give an answer of about 100?</p> <p><math>87 + 26</math> <math>14 + 98</math> <math>82 + 17</math> <math>45 + 67</math></p>	<p>5. Which of these calculations give an answer of about 120?</p> <p><math>84 + 23</math> <math>46 + 76</math> <math>98 + 32</math> <math>53 + 56</math></p>	<p>6. Which of these calculations give an answer of about 150?</p> <p><math>76 + 77</math> <math>63 + 76</math> <math>125 + 41</math> <math>95 + 43</math></p>
<p>7. Which of these calculations give an answer of about 200?</p> <p><math>120 + 60</math> <math>50 + 180</math> <math>130 + 70</math> <math>140 + 160</math></p>	<p>8. Which of these calculations give an answer of about 300?</p> <p><math>150 + 175</math> <math>205 + 90</math> <math>105 + 175</math> <math>75 + 220</math></p>	<p>9. Which of these calculation give an answer of about 400?</p> <p><math>234 + 129</math> <math>294 + 76</math> <math>301 + 102</math> <math>241 + 156</math></p>
<p>10. Which of these calculations give an answer of about 110?</p> <p><math>87 + 26</math> <math>14 + 98</math> <math>82 + 17</math> <math>45 + 67</math></p>	<p>11. Which of these calculations give an answer of about 250?</p> <p><math>124 + 221</math> <math>113 + 135</math> <math>26 + 231</math> <math>175 + 55</math></p>	<p>12. Which of these calculations give an answer of about 350?</p> <p><math>237 + 114</math> <math>290 + 98</math> <math>104 + 216</math> <math>98 + 228</math></p>
<p>13. Which of these calculations give an answer of about 500?</p> <p><math>245 + 275</math> <math>135 + 450</math> <math>285 + 180</math> <math>345 + 160</math></p>	<p>14. Which of these calculations give an answer of about 750?</p> <p><math>534 + 220</math> <math>235 + 480</math> <math>150 + 563</math> <math>378 + 330</math></p>	<p>15. Which of these calculations give an answer of about 1000?</p> <p><math>901 + 156</math> <math>139 + 786</math> <math>456 + 553</math> <math>782 + 214</math></p>

# Estimating Subtraction Calculations

<p>1. Which of these calculations give an answer of about 10?</p> <p>34 - 23 64 - 45 27 - 12 98 - 77</p>	<p>2. Which of these calculations give an answer of about 20?</p> <p>45 - 18 39 - 29 37 - 16 31 - 17</p>	<p>3. Which of these calculations give an answer of about 30?</p> <p>92 - 54 31 - 12 37 - 16 76 - 47</p>
<p>4. Which of these calculations give an answer of about 40?</p> <p>77 - 26 114 - 98 87 - 46 45 - 17</p>	<p>5. Which of these calculations give an answer of about 50?</p> <p>84 - 23 124 - 76 98 - 32 53 - 11</p>	<p>6. Which of these calculations give an answer of about 60?</p> <p>76 - 17 63 - 11 125 - 54 95 - 43</p>
<p>7. Which of these calculations give an answer of about 70?</p> <p>120 - 60 250 - 180 130 - 70 200 - 160</p>	<p>8. Which of these calculations give an answer of about 80?</p> <p>150 - 75 205 - 120 220 - 150 300 - 220</p>	<p>9. Which of these calculation give an answer of about 90?</p> <p>234 - 129 294 - 213 301 - 102 241 - 153</p>
<p>10. Which of these calculations give an answer of about 100?</p> <p>324 - 221 113 - 35 226 - 31 175 - 55</p>	<p>11. Which of these calculations give an answer of about 150?</p> <p>237 - 114 290 - 98 404 - 216 380 - 228</p>	<p>12. Which of these calculations give an answer of about 200?</p> <p>490 - 265 431 - 239 835 - 670 496 - 267</p>
<p>13. Which of these calculations give an answer of about 250?</p> <p>345 - 98 513 - 245 268 - 31 459 - 181</p>	<p>14. Which of these calculations give an answer of about 350?</p> <p>934 - 627 513 - 135 428 - 231 465 - 112</p>	<p>15. Which of these calculations give an answer of about 500?</p> <p>934 - 427 613 - 145 728 - 231 1045 - 518</p>

## Estimate on 0 - 1000 Number Line Worksheet

a) 459



b) 213



c) 987



d) 753



e) 289



f) 672



g) 31



h) 814



## Estimate on Different Number Lines Worksheet

a) 743



b) 857



c) 387



d) 198



e) 449



f) 576



g) 610



h) 841



# Writing Numbers in Words

Write the following numbers in words:

<b>243</b>	<b>Two hundred and forty-three</b>
<b>567</b>	
<b>785</b>	
<b>391</b>	
<b>669</b>	
<b>402</b>	
<b>513</b>	
<b>699</b>	
<b>840</b>	
<b>709</b>	
<b>112</b>	
<b>590</b>	
<b>519</b>	
<b>101</b>	

# Writing Numbers in Words

Write the following words into numbers:

<b>Three hundred and forty-six</b>	<b>346</b>
<b>Six hundred and thirty-nine</b>	
<b>Nine hundred and thirteen</b>	
<b>Seven hundred and twenty-eight</b>	
<b>Four hundred and six</b>	
<b>Nine hundred and thirty</b>	
<b>One hundred and four</b>	
<b>Five hundred and thirty-five</b>	
<b>Two hundred and twenty-two</b>	
<b>Four hundred and sixty</b>	
<b>Eight hundred and seventy-eight</b>	
<b>Nine hundred and ninety-one</b>	
<b>One hundred and ninety-nine</b>	
<b>Five hundred and fifteen</b>	

# Writing Numbers in Words

Write the following words into numbers and numbers into words:

	<b>561</b>
	<b>902</b>
<b>Two hundred and fourteen</b>	
<b>Six hundred and fifty-nine</b>	
	<b>327</b>
<b>Four hundred and twelve</b>	
<b>Eight hundred and eight</b>	
	<b>880</b>
	<b>660</b>
<b>Six hundred and sixteen</b>	
	<b>779</b>
<b>Three hundred and thirty-seven</b>	
	<b>819</b>
<b>Seven hundred and forty</b>	