

# Homework Sheet 1: Whole Numbers

Write these numbers in figures.

- 1 thirty-five ..... 35
- 2 one hundred and eighteen .....
- 3 four hundred and seventy-two .....
- 4 five hundred and twenty-nine .....
- 5 two hundred and forty-one .....
- 6 eighty-six .....
- 7 three hundred and sixty .....
- 8 nine hundred and four .....
- 9 seven hundred and ninety-seven .....
- 10 six hundred and fifty-three .....
- 11 four hundred and fifteen .....
- 12 two hundred and eight .....

Write these numbers in words. Take care with the spellings.

- 13 126 .....
- 14 62 .....
- 15 348 .....
- 16 580 .....
- 17 717 .....
- 18 234 .....
- 19 659 .....
- 20 73 .....
- 21 405 .....
- 22 891 .....
- 23 360 .....
- 24 719 .....

**Homework Sheet 2: Counting On**

Count on in 10s:

- 1 60 from 231 .....<sup>291</sup>
- 2 70 from 349 .....
- 3 50 from 860 .....
- 4 90 from 552 .....
- 5 70 from 638. ....

Count back in 1s:

- 11 7 from 63 .....
- 12 9 from 175 .....
- 13 6 from 524 .....
- 14 11 from 198 .....
- 15 8 from 247. ....

Continue the sequences.

- 21 342 352 362 372 ..... .....
- 22 135 134 133 132 ..... .....
- 23 109 209 309 409 ..... .....
- 24 453 443 433 423 ..... .....
- 25 194 195 196 197 ..... .....
- 26 980 880 780 680 ..... .....
- 27 230 240 250 260 ..... .....
- 28 301 401 501 601 ..... .....

Count on in 100s:

- 6 400 from 390 .....
- 7 600 from 254 .....
- 8 700 from 36 .....
- 9 800 from 125 .....
- 10 500 from 370. ....

Count back in 10s:

- 16 50 from 182 .....
- 17 40 from 430 .....
- 18 70 from 327 .....
- 19 60 from 742 .....
- 20 80 from 659. ....

# Homework Sheet 3: Odd and Even Numbers

Even numbers end in 0, 2, 4, 6 or 8.	Odd numbers end in 1, 3, 5, 7 or 9.
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Write the missing numbers in the boxes.

1 2 4 6

2 1 3 5

Write odd or even in each space.

3 14 is .....

4 5 is .....

5 26 is .....

6 87 is .....

7 32 is .....

8 70 is .....

9 49 is .....

10 58 is .....

11 63 is .....

12 91 is .....

13 Draw a ring round the odd numbers.

38		40		3
	87		99	
52		21		64
	75		96	

14 Draw a ring round the even numbers.

	34		73		16
50					27
		69			
45			1		
	82				28

15 If you add 2 even numbers, is the answer odd or even?

.....

Give 2 examples.

+  =

+  =

16 If you add 2 odd numbers, is the answer odd or even?

.....

Give 2 examples.

+  =

+  =

# Homework Sheet 4: Number Sequences

To find the rule that links the numbers, look at the gaps.

Examples    2    4    6    8    10    The rule is 'add 2'.  
                  19   16   13   10    7    The rule is 'subtract 3'.

Write the first seven numbers in each sequence.

	Rule	Start at							
1	Add 2	11	11	13	15				
2	Take 4	36	36	32					
3	Add 3	7	7						
4	Take 5	50	50						
5	Add 100	117							
6	Take 10	83							
7	Add 5	2							
8	Take 2	24							

Complete the sequences by filling in the boxes.

9	6	9	12	15				
10	41	37	33	29				
11	15	25	35	45				
12	33	31	29	27				
13			75	80	85	90		
14			664	564	464	364		
15			18	22	26	30		
16			35	32	29	26		

**Homework Sheet 5: Place Value**

H	T	U	The 5 has a value of 500.
5	6	7	The 6 has a value of 60.
			The 7 has a value of 7.
$567 = 500 + 60 + 7$			

Write the missing number in the box.

1  $257 = 200 + \square + 7$

6  $862 = \square + 60 + 2$

2  $735 = 700 + 30 + \square$

7  $179 = \square + 70 + 9$

3  $391 = 300 + \square + 1$

8  $646 = 600 + 40 + \square$

4  $528 = \square + 20 + 8$

9  $413 = 400 + \square + 3$

5  $964 = 900 + 60 + \square$

10  $584 = 500 + \square + 4$

Write the value of the underlined digit.

11  $\underline{3}84$  .....

16  $1\underline{2}6$  .....

21  $89\underline{3}$  .....

12  $6\underline{3}0$  .....

17  $35\underline{2}$  .....

22  $\underline{2}45$  .....

13  $96\underline{5}$  .....

18  $\underline{7}19$  .....

23  $50\underline{1}$  .....

14  $\underline{2}08$  .....

19  $4\underline{7}3$  .....

24  $\underline{1}68$  .....

15  $8\underline{4}1$  .....

20  $\underline{5}97$  .....

25  $4\underline{2}7$  .....

Work out

26  $127 + 30$  .....

31  $160 + 700$  .....

27  $241 + 8$  .....

32  $823 + 50$  .....

28  $465 + 20$  .....

33  $351 + 300$  .....

29  $334 + 40$  .....

34  $931 + 6$  .....

30  $586 + 400$  .....

35  $407 + 90$  .....

# Homework Sheet 6: Ordering Numbers

To order numbers compare the highest value digit.

Example    138   71   201    Starting with the smallest  
               ↓     ↓     ↓       the order is 71, 138, 201.  
               100   70   200

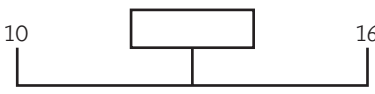
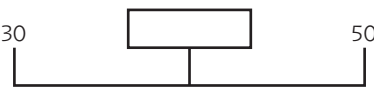
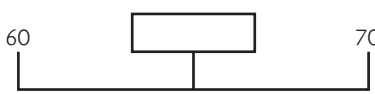
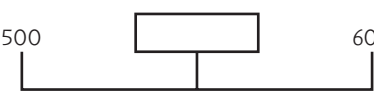
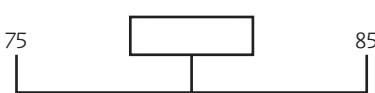
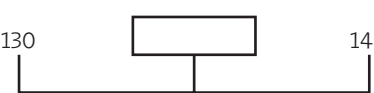
Draw a circle round the larger number in each pair.

- |   |     |    |   |     |     |    |     |     |
|---|-----|----|---|-----|-----|----|-----|-----|
| 1 | 23  | 32 | 5 | 180 | 810 | 9  | 572 | 527 |
| 2 | 59  | 95 | 6 | 256 | 526 | 10 | 309 | 390 |
| 3 | 64  | 46 | 7 | 974 | 749 | 11 | 168 | 186 |
| 4 | 123 | 32 | 8 | 813 | 318 | 12 | 243 | 234 |

Put these sets of numbers in order, starting with the smallest.

- 13 165 156 561 516 .....
- 14 437 347 473 374 .....
- 15 821 182 218 128 .....
- 16 293 392 239 329 .....

Write the number that is halfway on each number line.

- |    |   |    |  |
|----|---|----|--|
| 17 |  | 20 |  |
| 18 |  | 21 |  |
| 19 |  | 22 |  |

# Homework Sheet 7: Add/Subtract 1, 10 or 100

To add 1, you add 1 to the digit in the units column.  
 To add 10, you add 1 to the digit in the tens column.  
 To add 100, you add 1 to the digit in the hundreds column.

Write the number which is:

1 more than

10 less than

100 more than

**1** 25 .....

**5** 176 .....

**9** 465 .....

**2** 438 .....

**6** 252 .....

**10** 329 .....

**3** 701 .....

**7** 281 .....

**11** 513 .....

**4** 894 .....

**8** 640 .....

**12** 807 .....

1 less than

10 more than

100 less than

**13** 51 .....

**17** 123 .....

**21** 436 .....

**14** 386 .....

**18** 455 .....

**22** 621 .....

**15** 972 .....

**19** 389 .....

**23** 508 .....

**16** 245 .....

**20** 761 .....

**24** 892 .....

Write the missing numbers.

**25**   $\xrightarrow{+1}$  318

**27** 400  $\xrightarrow{+10}$

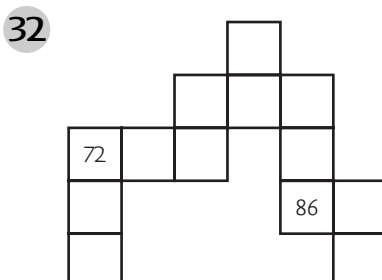
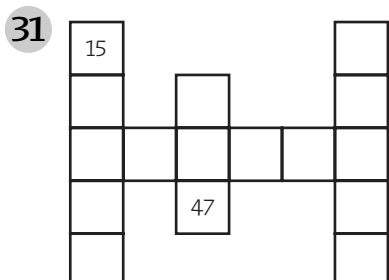
**29**   $\xrightarrow{-1}$  253

**26**   $\xrightarrow{-100}$  735

**28** 127  $\xrightarrow{-10}$

**30**   $\xrightarrow{+100}$  476

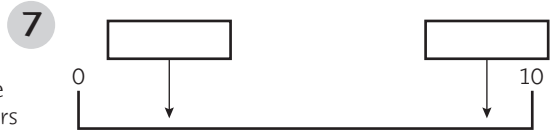
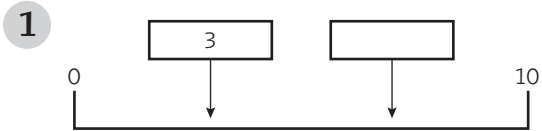
These are parts of the 1 to 100 square. Write in the missing numbers.



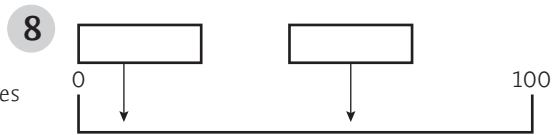
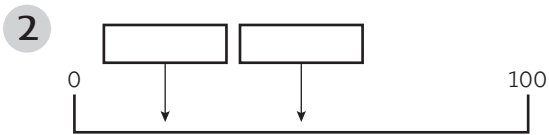
# Homework Sheet 8: Estimating

Write your estimate of each number shown in the box.

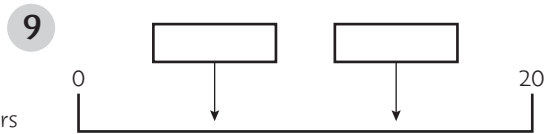
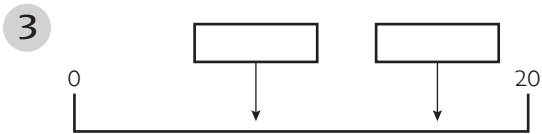
The answers are:



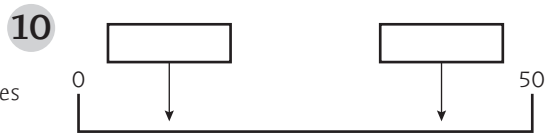
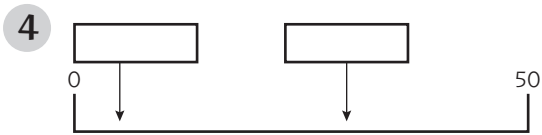
whole numbers



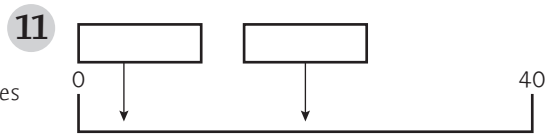
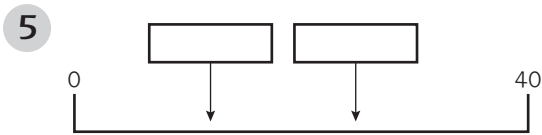
multiples of 10



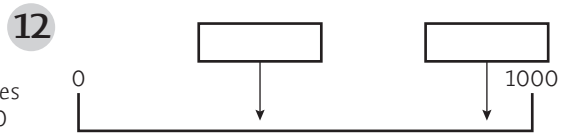
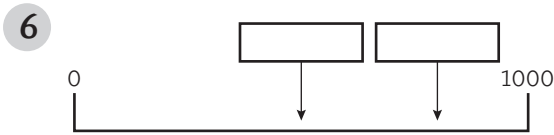
even numbers



multiples of 5



multiples of 4

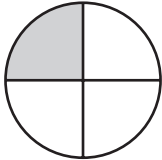


multiples of 100



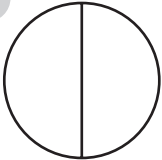

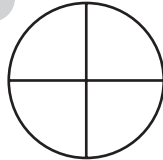
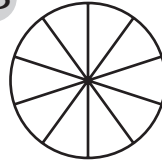
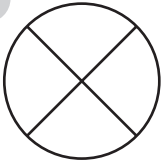
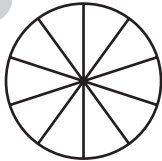
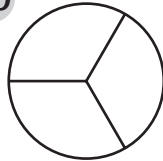
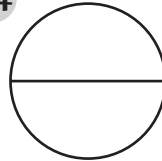

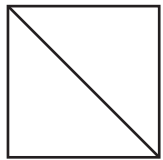
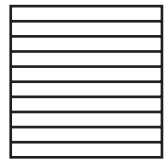
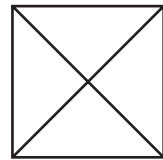
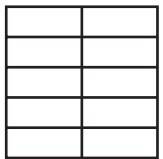
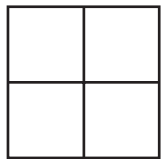
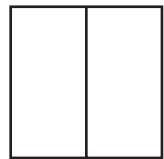
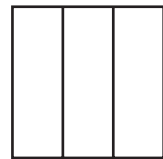
# Homework Sheet 9: Recognising Fractions

Example

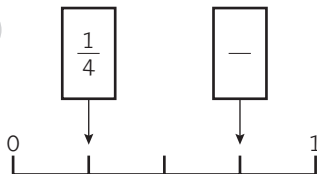
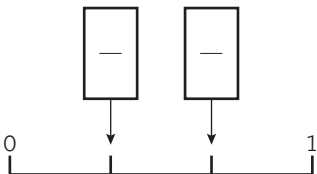
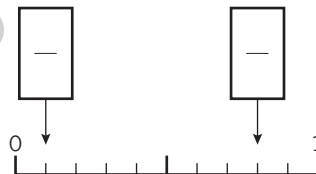


$\frac{1}{4}$  is shaded  
 $\frac{3}{4}$  is unshaded

For each shape shade the fraction shown.

<b>1</b>		$\frac{1}{2}$	<b>5</b>		$\frac{2}{3}$	<b>9</b>		$\frac{1}{4}$	<b>13</b>		$\frac{7}{10}$
<b>2</b>		$\frac{1}{4}$	<b>6</b>		$\frac{3}{10}$	<b>10</b>		$\frac{1}{3}$	<b>14</b>		$\frac{1}{2}$
<b>3</b>		$\frac{1}{3}$	<b>7</b>		$\frac{1}{2}$	<b>11</b>		$\frac{9}{10}$	<b>15</b>		$\frac{3}{4}$
<b>4</b>		$\frac{1}{10}$	<b>8</b>		$\frac{1}{4}$	<b>12</b>		$\frac{1}{2}$	<b>16</b>		$\frac{2}{3}$

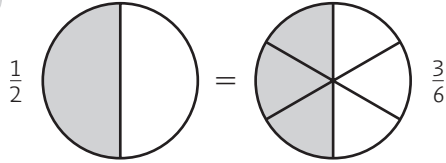
Write the fraction shown in the box.

<b>17</b>		<b>18</b>		<b>19</b>	
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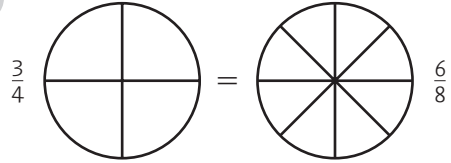
# Homework Sheet 10: Equivalent Fractions

Shade in each pair of fractions to show that they are equivalent fractions.

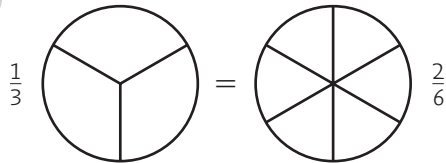
1



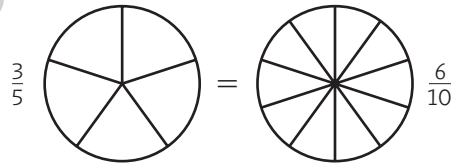
5



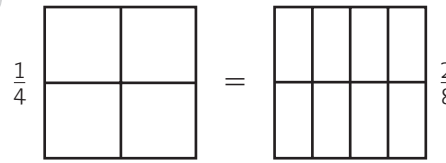
2



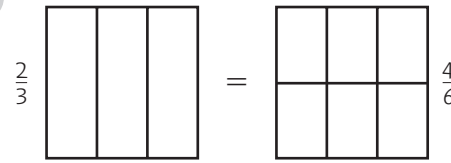
6



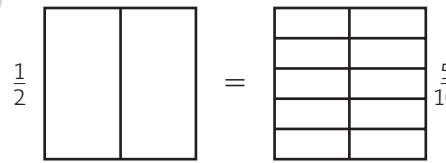
3



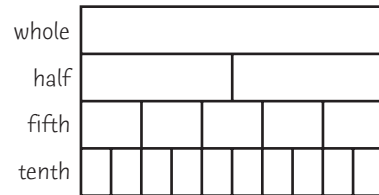
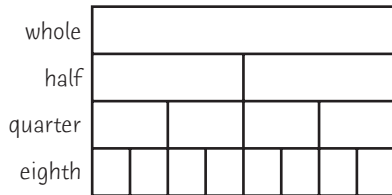
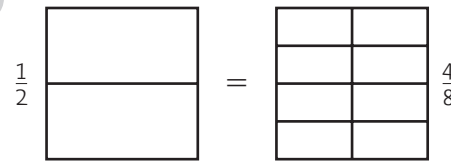
7



4



8



Use the fraction charts to complete these equivalent fractions.

9  $\frac{1}{2} = \frac{\square}{4}$

11  $\frac{1}{5} = \frac{\square}{10}$

13  $1 = \frac{\square}{4}$

15  $\frac{1}{2} = \frac{\square}{8}$

10  $1 = \frac{\square}{5}$

12  $\frac{3}{4} = \frac{\square}{8}$

14  $\frac{1}{2} = \frac{\square}{10}$

16  $\frac{2}{5} = \frac{\square}{10}$

# Homework Sheet 11: Fractions of Quantities

Examples One half of  $16p = 16p \div 2 = 8p$   
 One quarter of  $16p = 16p \div 4 = 4p$   
 One tenth of  $30p = 30p \div 10 = 3p$

1 Colour one half of the circles red.



Colour one quarter of the circles blue.



Colour one tenth of the circles yellow.



Write the answer on the line.

2  $\frac{1}{2}$  of 40 .....

5  $\frac{1}{2}$  of 18 .....

8  $\frac{1}{2}$  of 24 .....

3  $\frac{1}{4}$  of 12 cm ..... cm

6  $\frac{1}{4}$  of 24 cm ..... cm

9  $\frac{1}{4}$  of 36 cm ..... cm

4  $\frac{1}{100}$  of £1 ..... p

7  $\frac{1}{10}$  of 50p ..... p

10  $\frac{1}{10}$  of 70p ..... p

Write the answer in the box.

11 There are 30 chocolates in a box.

One half of them have soft centres.

How many of the chocolates have soft centres?

12 There are 50 apples on a tree.

Tricia picks one tenth of the apples.

How many apples has she picked?

How many apples are left on the tree?

13 Simon is 32.

His son, Darren, is one quarter of Simon's age.

How old is Darren?

How old was Simon when Darren was born?

**Homework Sheet 12: Addition Facts**

Work out

1  $10 + 6$  .....

2  $7 + 8$  .....

3  $8 + 6$  .....

4  $6 + 9$  .....

5  $9 + 7$  .....

6  $8 + 5$  .....

7  $10 + 8$  .....

8  $9 + 5$  .....

9  $7 + 7$  .....

10  $6 + 6$  .....

11  $8 + 7$  .....

12  $8 + 9$  .....

13  $9 + 10$  .....

14  $6 + 8$  .....

15  $5 + 6$  .....

16  $7 + 9$  .....

17  $6 + 7$  .....

18  $10 + 7$  .....

19  $9 + 9$  .....

20  $8 + 8$  .....

Write the missing number in the box.

21  $9 + \square = 17$

22  $7 + \square = 13$

23  $10 + \square = 19$

24  $6 + \square = 14$

25  $\square + 8 = 17$

26  $\square + 12 = 20$

27  $\square + 7 = 16$

28  $\square + 8 = 15$

29  $75 + \square = 100$

30  $35 + \square = 100$

31  $85 + \square = 100$

32  $25 + \square = 100$

33  $\square + 65 = 100$

34  $\square + 95 = 100$

35  $\square + 45 = 100$

36  $\square + 15 = 100$

37  $200 + \square = 1000$

38  $700 + \square = 1000$

39  $400 + \square = 1000$

40  $500 + \square = 1000$

**Homework Sheet 13: Subtraction Facts**

Work out

1  $19 - 8$  .....

2  $17 - 9$  .....

3  $15 - 8$  .....

4  $20 - 13$  .....

5  $16 - 8$  .....

6  $18 - 12$  .....

7  $17 - 11$  .....

8  $19 - 13$  .....

9  $14 - 6$  .....

10  $20 - 7$  .....

11  $16 - 7$  .....

12  $14 - 5$  .....

13  $17 - 12$  .....

14  $20 - 14$  .....

15  $15 - 7$  .....

16  $18 - 9$  .....

17  $19 - 7$  .....

18  $20 - 11$  .....

19  $16 - 9$  .....

20  $15 - 6$  .....

Write the missing number in the box.

21  $19 - \square = 11$

22  $17 - \square = 8$

23  $20 - \square = 14$

24  $16 - \square = 9$

25  $18 - \square = 13$

26  $15 - \square = 6$

27  $17 - \square = 9$

28  $14 - \square = 8$

29  $100 - 75 = \square$

30  $100 - 45 = \square$

31  $100 - 65 = \square$

32  $100 - 15 = \square$

33  $100 - \square = 95$

34  $100 - \square = 75$

35  $100 - \square = 55$

36  $100 - \square = 15$

37  $1000 - 300 = \square$

38  $1000 - 800 = \square$

39  $1000 - \square = 500$

40  $1000 - \square = 100$

**Homework Sheet 14: Understanding Addition**

$$\text{Example } 37 + \square = 52$$

The missing number is 15, because  $52 - 37 = 15$ .

Write in the missing number.

- 1 The sum of 55 and 23 is .....
- 2 300 add 83 equals .....
- 3 45 and 19 altogether is .....
- 4 The total of 800 and 700 is .....
- 5 38 plus 90 equals .....

Write in the missing number.

- 6 Add  $\square$  to 36 to make 89.
- 7  $\square$  and 20 altogether is 106.
- 8 The total of  $\square$  and 42 is 100.
- 9  $\square$  plus 21 is 83.
- 10 The sum of 48 and  $\square$  is 75.

Write in the missing number.

- |                         |                          |
|-------------------------|--------------------------|
| 11 $35 + \square = 62$  | 16 $\square + 6 = 71$    |
| 12 $\square + 7 = 403$  | 17 $\square + 15 = 83$   |
| 13 $76 + \square = 100$ | 18 $\square + 21 = 94$   |
| 14 $\square + 29 = 77$  | 19 $80 + \square = 126$  |
| 15 $90 + \square = 170$ | 20 $239 + \square = 439$ |

## Homework Sheet 15: Understanding Subtraction

Example  - 26 = 38

The answer is 64, because  $38 + 26 = 64$ .

Work out

- |  |                            |
|--|----------------------------|
| 1 35 less than 100 ... <sup>65</sup> ... | 4 205 take away 8 .....    |
| 2 Take 19 from 71 .....                  | 5 60 less than 300 .....   |
| 3 54 subtract 28 .....                   | 6 Subtract 9 from 86 ..... |

Write the difference between each pair of numbers.

- |                     |                      |
|---------------------|----------------------|
| 7 231 and 100 ..... | 10 56 and 74 .....   |
| 8 470 and 500 ..... | 11 125 and 135 ..... |
| 9 83 and 19 .....   | 12 21 and 64 .....   |

Write down how many more must be added to each number to make the target number, shown in the ring.

50

100

1000

- |                            |             |              |
|----------------------------|-------------|--------------|
| 13 43 ... <sup>7</sup> ... | 17 75 ..... | 21 300 ..... |
| 14 9 .....                 | 18 35 ..... | 22 500 ..... |
| 15 25 .....                | 19 5 .....  | 23 900 ..... |
| 16 18 .....                | 20 85 ..... | 24 200 ..... |

Write the missing number in the box.

- |                                     |                                   |
|-------------------------------------|-----------------------------------|
| 25 <input type="text"/> - 10 = 314  | 28 <input type="text"/> - 6 = 199 |
| 26 <input type="text"/> - 500 = 200 | 29 <input type="text"/> - 28 = 66 |
| 27 <input type="text"/> - 37 = 23   | 30 <input type="text"/> - 30 = 85 |

**Homework Sheet 16: Partitioning**

Example $38 + 25 = (30 + 20) + (8 + 5)$ $= 50 + 13$ $= 63$
--

Write the missing numbers in the boxes.

$$\begin{aligned} 1 \quad 45 + 27 &= (40 + 20) + (\square + \square) \\ &= 60 + \square \\ &= \square \end{aligned}$$

$$\begin{aligned} 6 \quad 46 + 25 &= \boxed{60} + \boxed{11} \\ &= \square \end{aligned}$$

$$\begin{aligned} 2 \quad 39 + 16 &= (30 + \square) + (9 + \square) \\ &= \square + \square \\ &= \square \end{aligned}$$

$$\begin{aligned} 7 \quad 59 + 27 &= \square + \square \\ &= \square \end{aligned}$$

$$\begin{aligned} 3 \quad 57 + 28 &= (\square + \square) + (\square + \square) \\ &= \square + \square \\ &= \square \end{aligned}$$

$$\begin{aligned} 8 \quad 38 + 36 &= \square + \square \\ &= \square \end{aligned}$$

$$\begin{aligned} 4 \quad 48 + 35 &= (\square + \square) + (\square + \square) \\ &= \square + \square \\ &= \square \end{aligned}$$

$$\begin{aligned} 9 \quad 65 + 19 &= \square + \square \\ &= \square \end{aligned}$$

$$\begin{aligned} 5 \quad 76 + 17 &= (\square + \square) + (\square + \square) \\ &= \square + \square \\ &= \square \end{aligned}$$

$$\begin{aligned} 10 \quad 49 + 28 &= \square + \square \\ &= \square \end{aligned}$$

Work out by partitioning.

$$11 \quad 36 + 18 \quad \dots\dots$$

$$17 \quad 45 + 38 \quad \dots\dots$$

$$12 \quad 57 + 36 \quad \dots\dots$$

$$18 \quad 57 + 39 \quad \dots\dots$$

$$13 \quad 39 + 35 \quad \dots\dots$$

$$19 \quad 39 + 28 \quad \dots\dots$$

$$14 \quad 48 + 27 \quad \dots\dots$$

$$20 \quad 55 + 26 \quad \dots\dots$$

$$15 \quad 67 + 25 \quad \dots\dots$$

$$21 \quad 48 + 46 \quad \dots\dots$$

$$16 \quad 36 + 29 \quad \dots\dots$$

$$22 \quad 69 + 17 \quad \dots\dots$$



# Homework Sheet 17: Adding/Subtracting 9, 19, 11, 21

Examples	$23 + 19 = 23 + 20 - 1$	$48 - 19 = 48 - 20 + 1$
	$= 43 - 1$	$= 28 + 1$
	$= 42$	$= 29$
	$54 + 21 = 54 + 20 + 1$	$68 - 21 = 68 - 20 - 1$
	$= 74 + 1$	$= 48 - 1$
	$= 75$	$= 47$

Complete as in the examples.

1  $46 + 19 = 46 + \square - \square$   
 $= \square - \square$   
 $= \square$

5  $32 + 19 = \square + \square - \square$   
 $= \square - \square$   
 $= \square$

2  $27 + 21 = \square + \square + \square$   
 $= \square + \square$   
 $= \square$

6  $43 + 21 = \square + \square + \square$   
 $= \square + \square$   
 $= \square$

3  $76 - 19 = \square - \square + \square$   
 $= \square + \square$   
 $= \square$

7  $94 - 19 = \square - \square + \square$   
 $= \square + \square$   
 $= \square$

4  $66 - 21 = \square - \square - \square$   
 $= \square - \square$   
 $= \square$

8  $49 - 21 = \square - \square - \square$   
 $= \square - \square$   
 $= \square$

Work out mentally.

9  $34 + 9$  .....

13  $36 + 19$  .....

17  $58 + 19$  .....

10  $46 + 11$  .....

14  $65 + 21$  .....

18  $36 + 21$  .....

11  $51 - 9$  .....

15  $43 - 19$  .....

19  $61 - 19$  .....

12  $67 - 11$  .....

16  $77 - 21$  .....

20  $85 - 21$  .....

**Homework Sheet 18: Add/Subtract Multiples of 10 and 100**

Work out

1  $257 + 10$  ..... <sup>267</sup>

2  $80 + 30$  .....

3  $700 + 500$  .....

4  $74 + 80$  .....

5  $168 + 100$  .....

6  $541 - 10$  .....

7  $120 - 70$  .....

8  $1100 - 300$  .....

9  $393 - 100$  .....

10  $105 - 40$  .....

11  $800 + 700$  .....

12  $93 + 60$  .....

13  $512 + 100$  .....

14  $194 + 10$  .....

15  $67 + 40$  .....

16  $755 - 100$  .....

17  $138 - 50$  .....

18  $1700 - 800$  .....

19  $177 - 90$  .....

20  $163 - 10$  .....

21  $79 + 10$  .....

22  $90 + 50$  .....

23  $237 + 100$  .....

24  $900 + 400$  .....

25  $48 + 90$  .....

26  $864 - 100$  .....

27  $126 - 80$  .....

28  $1400 - 600$  .....

29  $408 - 10$  .....

30  $151 - 60$  .....

Write the missing number in the box.

31  $\square + 70 = 160$

32  $\square - 600 = 700$

33  $\square + 40 = 500$

34  $\square - 30 = 85$

35  $\square + 500 = 1100$

36  $800 - \square = 730$

37  $73 + \square = 133$

38  $1700 - \square = 900$

39  $210 + \square = 300$

40  $128 - \square = 48$

# Homework Sheet 19: Adding 3 or More Numbers

Remember  
 Look for pairs that make 10 or multiples of 10.  
 Start with the largest number.

Work out

1  $9 + 4 + 7 + 6$  .....

2  $3 + 6 + 7 + 8$  .....

3  $5 + 1 + 9 + 14$  .....

4  $11 + 2 + 5 + 5$  .....

5  $2 + 6 + 15 + 8$  .....

6  $17 + 4 + 8 + 3$  .....

7  $5 + 9 + 15 + 7$  .....

8  $15 + 2 + 14 + 6$  .....

9  $3 + 8 + 12 + 5$  .....

10  $7 + 11 + 6 + 9$  .....

Write the missing number

11  $8 + 1 + \square + 19 = 34$

12  $5 + \square + 13 + 6 = 28$

13  $2 + 6 + 8 + \square = 30$

14  $9 + 7 + \square + 14 = 40$

15  $4 + 15 + 5 + \square = 33$

16  $6 + \square + 17 + 8 = 34$

17  $7 + 2 + \square + 13 = 29$

18  $\square + 7 + 12 + 5 = 31$

19  $2 + \square + 6 + 14 = 27$

20  $5 + 18 + 9 + \square = 36$

3 darts are thrown and they all hit the board.

Examples 4, 4, 4 scores 12

3, 8, 8 scores 19

3, 8, 11 scores 22

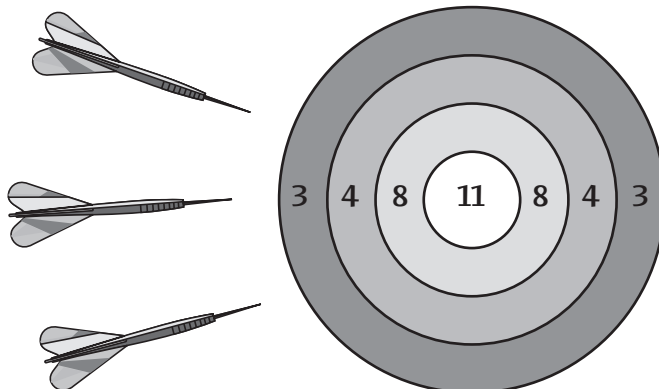
21 What is highest possible score? .....

22 What is the lowest possible score? .....

23 Find a way of scoring:

a) 23 ..... b) 24 ..... c) 25 .....

24 What is the only number between 10 and 20 that cannot be made? .....



**Homework Sheet 20: Informal Method for Addition**

Examples	$69 + 37 = 69 + 30 + 7$	$254 + 128 = 254 + 100 + 20 + 8$
	$= 99 + 7$	$= 354 + 20 + 8$
	$= 106$	$= 374 + 8$
		$= 382$

Complete using the method shown in the examples.

$$\textcircled{1} 73 + 48 = \overset{73}{\dots} + \overset{40}{\dots} + \overset{8}{\dots} \quad \textcircled{4} 86 + 37 = \dots + \dots + \dots$$

$$= \dots + \dots$$

$$= \dots + \dots$$

$$= \dots$$

$$= \dots$$

$$\textcircled{2} 159 + 46 = \dots + \dots + \dots \quad \textcircled{5} 67 + 53 = \dots + \dots + \dots$$

$$= \dots + \dots$$

$$= \dots + \dots$$

$$= \dots$$

$$= \dots + \dots$$

$$\textcircled{3} 88 + 57 = \dots + \dots + \dots \quad \textcircled{6} 195 + 68 = \dots + \dots + \dots$$

$$= \dots + \dots$$

$$= \dots + \dots +$$

$$= \dots$$

$$= \dots$$

$$\textcircled{7} 365 + 177 = \dots + \dots + \dots + \dots$$

$$= \dots + \dots + \dots$$

$$= \dots + \dots$$

$$= \dots$$

$$\textcircled{8} 485 + 286 = \dots + \dots + \dots + \dots$$

$$= \dots + \dots + \dots$$

$$= \dots + \dots$$

$$= \dots$$

# Homework Sheet 21: Standard Method for Addition

Examples	54		265
	+ 38		+ 74
Add the units.	<u>12</u>	Add the units.	<u>9</u>
Add the tens.	<u>80</u>	Add the tens	130
Find the total.	<u>92</u>	Add the hundreds.	<u>200</u>
		Find the total.	<u>339</u>

1

$$\begin{array}{r} 36 \\ + 23 \\ \hline 9 \\ \dots\dots \\ \hline 50 \\ \hline \end{array}$$

3

$$\begin{array}{r} 55 \\ + 39 \\ \hline \dots\dots \\ \hline \end{array}$$

5

$$\begin{array}{r} 67 \\ + 26 \\ \hline \dots\dots \\ \hline \end{array}$$

7

$$\begin{array}{r} 48 \\ + 45 \\ \hline \dots\dots \\ \hline \end{array}$$

2

$$\begin{array}{r} 87 \\ + 34 \\ \hline \dots\dots \\ \hline \end{array}$$

4

$$\begin{array}{r} 66 \\ + 48 \\ \hline \dots\dots \\ \hline \end{array}$$

6

$$\begin{array}{r} 73 \\ + 69 \\ \hline \dots\dots \\ \hline \end{array}$$

8

$$\begin{array}{r} 93 \\ + 77 \\ \hline \dots\dots \\ \hline \end{array}$$

Work out as in the second example above.

9

$$\begin{array}{r} 125 \\ + 67 \\ \hline 12 \\ \dots\dots \\ \hline 80 \\ \dots\dots \\ \hline 100 \\ \hline \end{array}$$

11

$$\begin{array}{r} 248 \\ + 77 \\ \hline \dots\dots \\ \hline \end{array}$$

13

$$\begin{array}{r} 163 \\ + 89 \\ \hline \dots\dots \\ \hline \end{array}$$

15

$$\begin{array}{r} 196 \\ + 74 \\ \hline \dots\dots \\ \hline \end{array}$$

10

$$\begin{array}{r} 184 \\ + 59 \\ \hline \dots\dots \\ \hline \end{array}$$

12

$$\begin{array}{r} 279 \\ + 95 \\ \hline \dots\dots \\ \hline \end{array}$$

14

$$\begin{array}{r} 257 \\ + 68 \\ \hline \dots\dots \\ \hline \end{array}$$

16

$$\begin{array}{r} 334 \\ + 97 \\ \hline \dots\dots \\ \hline \end{array}$$

# Homework Sheet 22: Informal Methods for Subtraction

Examples	$\begin{array}{r} 154 \\ - 63 \\ \hline 7 \end{array}$		$\begin{array}{r} 154 \\ - 63 \\ \hline 54 \\ 37 \\ \hline 91 \end{array}$
	7 to make 70		63 = 100 - 37
COUNTING UP	30 to make 100	COMPENSATION	Take 100
	54 to make 154		Add 37
	$\begin{array}{r} 54 \\ \hline 91 \end{array}$		

Use counting up.

**1** 
$$\begin{array}{r} 123 \\ - 35 \\ \hline \end{array}$$

.....  
5  
.....  
60  
.....  
23  
.....  
\_\_\_\_\_

**3** 
$$\begin{array}{r} 157 \\ - 84 \\ \hline \end{array}$$

.....  
.....  
.....  
.....  
\_\_\_\_\_

**5** 
$$\begin{array}{r} 146 \\ - 98 \\ \hline \end{array}$$

.....  
.....  
.....  
.....  
\_\_\_\_\_

**7** 
$$\begin{array}{r} 115 \\ - 69 \\ \hline \end{array}$$

.....  
.....  
.....  
.....  
\_\_\_\_\_

**2** 
$$\begin{array}{r} 142 \\ - 49 \\ \hline \end{array}$$

.....  
.....  
.....  
.....  
\_\_\_\_\_

**4** 
$$\begin{array}{r} 124 \\ - 57 \\ \hline \end{array}$$

.....  
.....  
.....  
.....  
\_\_\_\_\_

**6** 
$$\begin{array}{r} 123 \\ - 75 \\ \hline \end{array}$$

.....  
.....  
.....  
.....  
\_\_\_\_\_

**8** 
$$\begin{array}{r} 136 \\ - 43 \\ \hline \end{array}$$

.....  
.....  
.....  
.....  
\_\_\_\_\_

Use compensation.

**9** 
$$\begin{array}{r} 154 \\ - 78 \\ \hline \end{array}$$

.....  
54  
.....  
22  
.....  
\_\_\_\_\_

**11** 
$$\begin{array}{r} 217 \\ - 49 \\ \hline \end{array}$$

.....  
.....  
.....  
.....  
\_\_\_\_\_

**13** 
$$\begin{array}{r} 346 \\ - 93 \\ \hline \end{array}$$

.....  
.....  
.....  
.....  
\_\_\_\_\_

**15** 
$$\begin{array}{r} 439 \\ - 57 \\ \hline \end{array}$$

.....  
.....  
.....  
.....  
\_\_\_\_\_

**10** 
$$\begin{array}{r} 128 \\ - 65 \\ \hline \end{array}$$

.....  
.....  
.....  
.....  
\_\_\_\_\_

**12** 
$$\begin{array}{r} 262 \\ - 74 \\ \hline \end{array}$$

.....  
.....  
.....  
.....  
\_\_\_\_\_

**14** 
$$\begin{array}{r} 173 \\ - 81 \\ \hline \end{array}$$

.....  
.....  
.....  
.....  
\_\_\_\_\_

**16** 
$$\begin{array}{r} 325 \\ - 62 \\ \hline \end{array}$$

.....  
.....  
.....  
.....  
\_\_\_\_\_

# Homework Sheet 23: Standard Method for Subtraction

Example $84 = 80 + 4 = 70 + 14$	Check by $28$
$-56 \quad -50 + 6 \quad -\underline{50 + 6}$	adding $+56$
$\underline{20 + 8} = 28$	$\underline{84}$

Complete by filling in the boxes.

Check by adding.

<b>1</b>	$75 = 70 + \square = 60 + \square$		
	$-38 \quad -30 + \square \quad -30 + \square$		$\square$ $+ 38$
	$\underline{\square + \square} = \square$		<hr/>

<b>2</b>	$83 = 80 + \square = 70 + \square$		
	$-59 \quad -\square + \square \quad -\square + \square$		$\square$ $+ 59$
	$\underline{\square + \square} = \square$		<hr/>

<b>3</b>	$64 = \square + \square = \square + \square$		
	$-48 \quad \square + \square \quad \square + \square$		$\square$ $+ \square$
	$\underline{\square + \square} = \square$		<hr/>

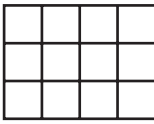
<b>4</b>	$52 = \square + \square = \square + \square$		
	$-35 \quad \square + \square \quad \square + \square$		$\square$ $+ \square$
	$\underline{\square + \square} = \square$		<hr/>

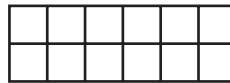
<b>5</b>	$96 = \square + \square = \square + \square$		
	$-47 \quad \square + \square \quad \square + \square$		$\square$ $+ \square$
	$\underline{\square + \square} = \square$		<hr/>

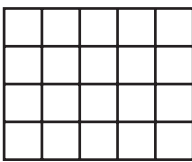
# Homework Sheet 24: Understanding Multiplication

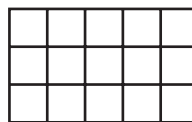
Example  $4 \times \square = 36$   
 The answer is 9, because  $36 \div 4 = 9$ .

Write two multiplication facts for each rectangle.

**1**   $\dots 4 \times \dots = \dots$   
 $\dots 3 \times \dots = \dots$

**3**   $\dots \times \dots = \dots$   
 $\dots \times \dots = \dots$

**2**   $\dots \times \dots = \dots$   
 $\dots \times \dots = \dots$

**4**   $\dots \times \dots = \dots$   
 $\dots \times \dots = \dots$

Write the missing number in the box.

**5**  $5 \times \square = 10$

**9**  $\square \times 4 = 20$

**13**  $\square \times 5 = 45$

**6**  $6 \times \square = 30$

**10**  $\square \times 8 = 16$

**14**  $8 \times \square = 32$

**7**  $7 \times \square = 70$

**11**  $\square \times 2 = 14$

**15**  $\square \times 10 = 100$

**8**  $4 \times \square = 12$

**12**  $\square \times 3 = 15$

**16**  $5 \times \square = 30$

Complete each table.

**17**

		$\times 2$
4	$\rightarrow$	8
	$\rightarrow$	16
	$\rightarrow$	12
	$\rightarrow$	18

**18**

		$\times 5$
	$\rightarrow$	25
	$\rightarrow$	40
	$\rightarrow$	20
	$\rightarrow$	35

**19**

		$\times 3$
	$\rightarrow$	21
	$\rightarrow$	15
	$\rightarrow$	27
	$\rightarrow$	18

Write three related facts using the same 3 numbers.

**20**  $7 \times 3 = 21$

$\square \times \square = 21$

$21 \div 3 = 7$

$21 \div \square = \square$

**21**  $9 \times 10 = 90$

$\square \times \square = \square$

$\square \div \square = \square$

$\square \div \square = \square$

**22**  $7 \times 4 = 28$

$\square \times \square = \square$

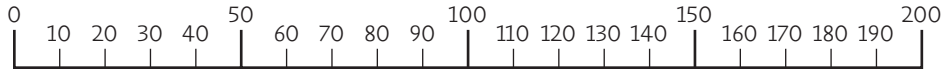
$\square \div \square = \square$

$\square \div \square = \square$



## Homework Sheet 25: Understanding Division

Example  $\square \div 5 = 6$   
The answer is 30, because  $6 \times 5 = 30$ .



Use the number line to work out:

- 1 how many 10s make 160 .....
- 2 how many 50s make 200 .....
- 3 how many 20s make 80 .....
- 4 how many 30s make 150 .....
- 5 how many 40s make 120 .....

Write three related facts using the same 3 numbers.

6  $32 \div 4 = 8$   
 $32 \div \square = 4$   
 $4 \times 8 = \square$   
 $8 \times \square = 32$

7  $50 \div 10 = 5$   
 $\square \div \square = \square$   
 $\square \times \square = 50$   
 $\square \times \square = \square$

8  $18 \div 3 = 6$   
 $\square \div \square = \square$   
 $\square \times \square = \square$   
 $\square \times \square = \square$

Complete these tables.

9

$\div 10$	
40	$\rightarrow$ 4
90	$\rightarrow$
	$\rightarrow$ 2
	$\rightarrow$ 8

10

$\div 2$	
10	$\rightarrow$ 5
14	$\rightarrow$
	$\rightarrow$ 9
	$\rightarrow$ 12

11

$\div 4$	
24	$\rightarrow$
16	$\rightarrow$
	$\rightarrow$ 10
	$\rightarrow$ 3

Write the missing number in the box.

12  $\square \div 5 = 5$

15  $30 \div \square = 3$

18  $\square \div 3 = 8$

13  $\square \div 2 = 8$

16  $24 \div \square = 6$

19  $\square \div 6 = 10$

14  $\square \div 3 = 9$

17  $35 \div \square = 7$

20  $\square \div 7 = 2$