

Homework Sheet 1: Place Value

Example	2 574 368	
	M HTh TTh Th H T U	
	2 5 7 4 3 6 8	The 2 has a value of 2 000 000. The 5 has a value of 500 000. The 7 has a value of 70 000. The 4 has a value of 4 000. The 3 has a value of 300. The 6 has a value of 60. The 8 has a value of 8.

Write the value of the underlined digit.

- | | |
|---|--|
| <p>1 <u>2</u>861 ...<u>800</u>...</p> <p>2 <u>1</u>6 540 </p> <p>3 437<u>0</u>3 </p> <p>4 <u>2</u>68 406 </p> <p>5 4<u>9</u>70 </p> <p>6 35<u>7</u>200 </p> <p>7 <u>8</u>5 600 </p> <p>8 <u>2</u>168 000 </p> <p>9 47<u>9</u> 632 </p> <p>10 <u>4</u> 215 000 </p> | <p>11 39<u>7</u>5 </p> <p>12 <u>2</u>7 314 </p> <p>13 <u>1</u>92 000 </p> <p>14 59 <u>6</u>22 </p> <p>15 <u>5</u>00 867 </p> <p>16 84<u>1</u>8 </p> <p>17 1<u>2</u>00 000 </p> <p>18 36 <u>5</u>94 </p> <p>19 53<u>7</u>1 000 </p> <p>20 <u>8</u>54 396 </p> |
|---|--|

21 Complete the addition square.

Add	5000	70 000	600	400 000
179				
826 000				
18 500				
1 300 000				

Homework Sheet 2: Multiplying And Dividing By 10, 100

Work out.

- | | | | | | |
|----|---------------------|-------|----|------------------------|-------|
| 1 | 370×10 | ..... | 11 | $840 \div 10$ | ..... |
| 2 | 4000×10 | ..... | 12 | $39\,160 \div 10$ | ..... |
| 3 | 90×100 | ..... | 13 | $63\,000 \div 100$ | ..... |
| 4 | 357×100 | ..... | 14 | $132\,500 \div 100$ | ..... |
| 5 | 259×10 | ..... | 15 | $200\,000 \div 100$ | ..... |
| 6 | 700×100 | ..... | 16 | $4970 \div 10$ | ..... |
| 7 | $26\,000 \times 10$ | ..... | 17 | $680\,000 \div 10$ | ..... |
| 8 | 5000×100 | ..... | 18 | $852\,100 \div 100$ | ..... |
| 9 | $50\,000 \times 10$ | ..... | 19 | $94\,200 \div 10$ | ..... |
| 10 | 6780×100 | ..... | 20 | $1\,000\,000 \div 100$ | ..... |

Complete by writing the missing number.

- | | | | |
|----|-------------------------------|----|----------------------------|
| 21 | $\times 100 = 1400$ | 27 | $\div 10 = 3110$ |
| 22 | $\times 10 = 238\,000$ | 28 | $\div 10 = 289$ |
| 23 | $\times 10 = 95\,800$ | 29 | $\div 100 = 5403$ |
| 24 | $\times 100 = 430\,000$ | 30 | $\div 100 = 620$ |
| 25 | $\times 100 = 14\,000$ | 31 | $\div 10 = 30\,000$ |
| 26 | $\times 100 = 65\,000$ | 32 | $\div 100 = 46\,900$ |

How many 1p's make:

- | | | | | | |
|----|------------|----|-------------|----|---------------|
| 33 | £12 | 35 | £7400 | 37 | £12 500 |
| 34 | £259 | 36 | £800 | 38 | £3680? |

Homework Sheet 3: Rounding

To round to the nearest 10 look at the units column.

To round to the nearest 100 look at the tens column.

To round to the nearest 1000 look at the hundreds column.

If the number is less than 5, round down.

If the number is 5 or greater than 5, round up.

Round these numbers to the nearest:

10

100

1000

1 83

9 923

17 3741

2 137

10 3460

18 16 390

3 362

11 2850

19 2800

4 516

12 1279

20 14 512

5 28

13 4380

21 8 238

6 174

14 16 547

22 23 605

7 425

15 20 153

23 19 499

8 609

16 31 272

24 9531

Approximate by rounding to the nearest 10.

25 $327 + 252$ is about $\boxed{330} + \boxed{} = \boxed{}$

26 $294 + 148$ is about $\boxed{} + \boxed{} = \boxed{}$

27 $239 - 78$ is about $\boxed{} - \boxed{} = \boxed{}$

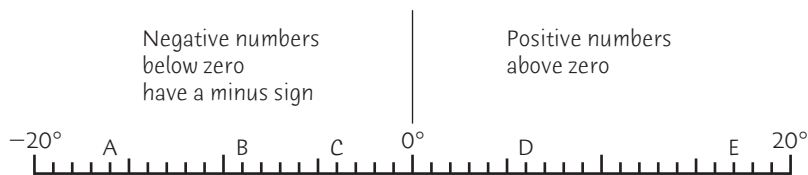
28 $313 - 64$ is about $\boxed{} - \boxed{} = \boxed{}$

29 62×4 is about $\boxed{} \times 4 = \boxed{}$

30 48×9 is about $\boxed{} \times 9 = \boxed{}$

Homework Sheet 4: Negative Numbers

We often use negative numbers with temperature.



Write the temperature shown by each letter.

- 1 A 2 B 3 C 4 D 5 E

What is the difference in temperature between:

- 6 A and D 8 C and E 10 B and E
 7 B and D 9 A and C 11 A and E?

Complete the sequences.

- 12 -10 -8 -6 -4
- 13 0 5 10 15
- 14 8 0 -12 -16
- 15 7 -8 -11 -14
- 16 -7 -9 -11 -13
- 17 -19 -15 -11 -7
- 18 -8 -13 -18 -23
- 19 6 4 -6 -8
- 20 -9 -3 3 9

Homework Sheet 5: Number Sequences

To find the rule that links the numbers study the gaps.

Examples -4 -1 2 5 8 The rule is 'add 3'.

52 47 42 37 32 The rule is 'subtract 5'.

Complete the first seven numbers in each sequence.

	Rule	Start at							
1	+6	42	48	54					
2	-11	93							
3	+1	-4							
4	-0.2	1.8							
5	+25	10							
6	-5	0							
7	+0.4	1.1							
8	-99	800							

Complete the sequences by filling in the boxes.

9	15	30	45	60				
10	8	6	4	2				
11					64	72	80	88
12					4.5	4.0	3.5	3.0
13			261	362	463	564		
14			510	460	410	360		
15			-12	-9	-6	-3		
16			108	120	132	144		

Homework Sheet 6: Multiples

Multiples are the numbers in a multiplication table.
 3, 6, 9 ... 36, 39, 42 ... 99, 102, 105 are all multiples of 3.

Complete the first 8 multiples of the number in the first box.

1	6	12	18					
2	25							
3	8							
4	12							
5	20							

Write Yes or No.

- | | |
|--|---|
| <p>6 Is 63 a multiple of 9?</p> <p>7 Is 511 a multiple of 5?</p> <p>8 Is 60 a multiple of 15?</p> <p>9 Is 56 a multiple of 7?</p> <p>10 Is 82 a multiple of 4?</p> <p>11 Is 180 a multiple of 20?</p> <p>12 Is 32 a multiple of 11?</p> | <p>13 Is 99 a multiple of 3?</p> <p>14 Is 75 a multiple of 50?</p> <p>15 Is 46 a multiple of 6?</p> <p>16 Is 150 a multiple of 2?</p> <p>17 Is 42 a multiple of 7?</p> <p>18 Is 69 a multiple of 9?</p> <p>19 Is 96 a multiple of 8?</p> |
|--|---|

Draw a circle around the numbers which are *not* multiples of:

<p>20 <input style="width: 40px;" type="text" value="2"/> 27 18 45 30 78</p> <p>21 <input style="width: 40px;" type="text" value="6"/> 18 26 24 63 30</p>	<p>22 <input style="width: 40px;" type="text" value="3"/> 15 23 27 60 31</p> <p>23 <input style="width: 40px;" type="text" value="5"/> 24 35 70 52 105</p>
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Write two numbers that are multiples of both:

<p>24 2 and 7 <input style="width: 40px;" type="text"/> <input style="width: 40px;" type="text"/></p> <p>25 4 and 5 <input style="width: 40px;" type="text"/> <input style="width: 40px;" type="text"/></p>	<p>26 3 and 10 <input style="width: 40px;" type="text"/> <input style="width: 40px;" type="text"/></p> <p>27 10 and 8. <input style="width: 40px;" type="text"/> <input style="width: 40px;" type="text"/></p>
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Homework Sheet 7: Divisibility Tests

Whole numbers are divisible by:

100 if the last two digits are 00

10 if the last digit is 0

2 if the number is even

4 if the last two digits are divisible by 4

5 if the last digit is 0 or 5

3 if the sum of the digits is divisible by 3.

Write T (True) or F (False) in each box.

- | | | | | | |
|---|--------------------------|--------------------------|----|--------------------------|--------------------------|
| 1 | 500 is divisible by 100. | <input type="checkbox"/> | 7 | 376 is divisible by 2. | <input type="checkbox"/> |
| 2 | 487 is divisible by 2. | <input type="checkbox"/> | 8 | 450 is divisible by 100. | <input type="checkbox"/> |
| 3 | 621 is divisible by 3. | <input type="checkbox"/> | 9 | 154 is divisible by 5. | <input type="checkbox"/> |
| 4 | 195 is divisible by 5. | <input type="checkbox"/> | 10 | 233 is divisible by 3. | <input type="checkbox"/> |
| 5 | 65 is divisible by 10. | <input type="checkbox"/> | 11 | 556 is divisible by 4. | <input type="checkbox"/> |
| 6 | 336 is divisible by 4. | <input type="checkbox"/> | 12 | 180 is divisible by 10. | <input type="checkbox"/> |

- 13 Complete the table using ticks and crosses to show divisibility.

NUMBER	DIVISIBLE BY				
	2	3	4	5	10
810	✓				
132	✓				
645	✗				
190					
756					
340					

Homework Sheet 8: Factors

It is often useful to think of factors as pairs of numbers whose product is the target number.

Example The factors of 12:
 1×12 2×6 3×4
 Factors of 12: 1, 2, 3, 4, 6, 12

Write down all the factors of the following numbers.

1 9 1 3 9

7 35

2 10 1 2

8 42

3 17 1

9 44

4 22

10 56

5 24

11 81

.....

12 60

6 28

.....

Break the second number down into factors to help find these products.

13 $35 \times 8 = 35 \times 2 \times 4$
 $= 70 \times 4$
 $= \square$

17 $17 \times 12 = \square \times \square \times \square$
 $= \square \times \square$
 $= \square$

14 $27 \times 6 = 27 \times 2 \times \square$
 $= 54 \times \square$
 $= \square$

18 $22 \times 15 = \square \times \square \times \square$
 $= \square \times \square$
 $= \square$

15 $14 \times 9 = 14 \times \square \times \square$
 $= \square \times \square$
 $= \square$

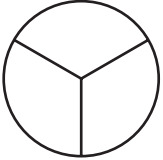
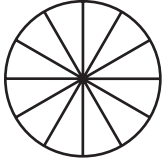
19 $53 \times 18 = \square \times \square \times \square$
 $= \square \times \square$
 $= \square$

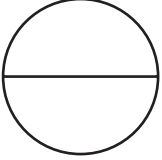
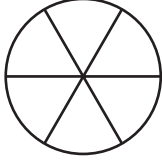
16 $15 \times 14 = 15 \times \square \times \square$
 $= \square \times \square$
 $= \square$


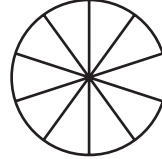
20 $25 \times 16 = \square \times \square \times \square$
 $= \square \times \square$
 $= \square$

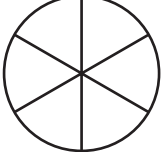
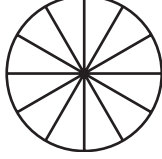
Homework Sheet 9: Equivalent Fractions

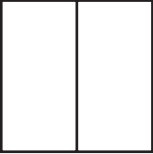
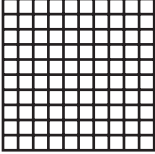
Colour in the diagrams to show each pair of equivalent fractions.
Write the missing fraction.

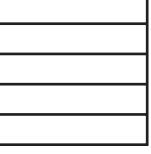
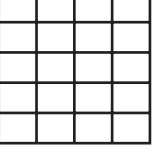
1 $\frac{1}{3}$  =  $\frac{\square}{12}$


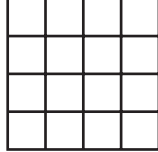
5 $\frac{1}{2}$  =  $\frac{\square}{\square}$

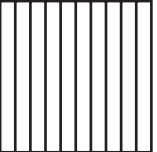
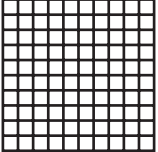
2 $\frac{3}{5}$  =  $\frac{\square}{\square}$

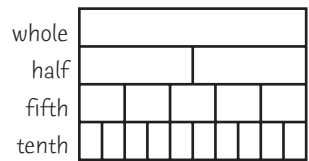
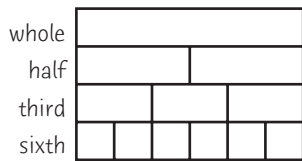
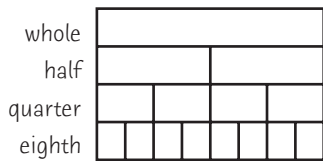
6 $\frac{5}{6}$  =  $\frac{\square}{\square}$

3 $\frac{1}{2}$  =  $\frac{\square}{\square}$

7 $\frac{2}{5}$  =  $\frac{\square}{\square}$

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

8 $\frac{7}{10}$  =  $\frac{\square}{\square}$



Use the fraction charts to complete the equivalent fractions.

9 $\frac{1}{2} = \frac{\square}{10}$

11 $\frac{1}{3} = \frac{\square}{6}$

13 $\frac{2}{3} = \frac{\square}{12}$

15 $\frac{4}{5} = \frac{\square}{20}$

10 $\frac{1}{4} = \frac{\square}{8}$

12 $\frac{3}{5} = \frac{\square}{10}$

14 $\frac{1}{2} = \frac{\square}{16}$

16 $\frac{3}{4} = \frac{\square}{100}$

Homework Sheet 10: Improper Fractions

Examples

Change $\frac{9}{4}$ to a mixed number.

Divide numerator by denominator.

$$9 \div 4 = 2 \text{ rem. } 1$$

Put remainder over denominator

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

Change $8\frac{9}{10}$ to an improper fraction.

Multiply whole number by denominator.

$$8 \times 10 = 80$$

Add the numerator.

$$80 + 9 = 89$$

Put sum over denominator.

$$8\frac{9}{10} = \frac{89}{10}$$

Change to mixed numbers.

1 $\frac{7}{3} = 2\frac{1}{3}$

5 $\frac{32}{5} = \dots\dots\dots$

9 $\frac{16}{9} = \dots\dots\dots$

13 $\frac{427}{100} = \dots\dots\dots$

2 $\frac{9}{2} = \dots\dots\dots$

6 $\frac{21}{8} = \dots\dots\dots$

10 $\frac{19}{5} = \dots\dots\dots$

14 $\frac{117}{50} = \dots\dots\dots$

3 $\frac{11}{6} = \dots\dots\dots$

7 $\frac{73}{10} = \dots\dots\dots$

11 $\frac{31}{6} = \dots\dots\dots$

15 $\frac{23}{12} = \dots\dots\dots$

4 $\frac{15}{4} = \dots\dots\dots$

8 $\frac{153}{100} = \dots\dots\dots$

12 $\frac{18}{7} = \dots\dots\dots$

16 $\frac{27}{8} = \dots\dots\dots$

Change to improper fractions.

17 $3\frac{1}{2} = \frac{7}{2}$

21 $2\frac{1}{4} = \frac{\boxed{}}{\boxed{}}$

25 $2\frac{7}{12} = \frac{\boxed{}}{\boxed{}}$

29 $4\frac{13}{20} = \frac{\boxed{}}{\boxed{}}$

18 $5\frac{3}{5} = \frac{\boxed{}}{5}$

22 $3\frac{5}{6} = \frac{\boxed{}}{\boxed{}}$

26 $3\frac{99}{100} = \frac{\boxed{}}{\boxed{}}$

30 $5\frac{3}{7} = \frac{\boxed{}}{\boxed{}}$

19 $4\frac{2}{3} = \frac{\boxed{}}{3}$

23 $5\frac{7}{10} = \frac{\boxed{}}{\boxed{}}$

27 $6\frac{5}{9} = \frac{\boxed{}}{\boxed{}}$

31 $2\frac{5}{16} = \frac{\boxed{}}{\boxed{}}$

20 $1\frac{7}{8} = \frac{\boxed{}}{8}$

24 $2\frac{8}{25} = \frac{\boxed{}}{\boxed{}}$

28 $4\frac{1}{6} = \frac{\boxed{}}{\boxed{}}$

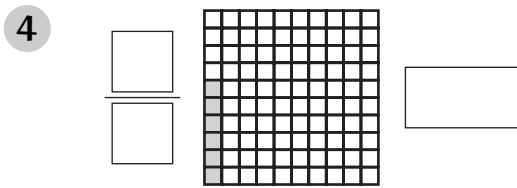
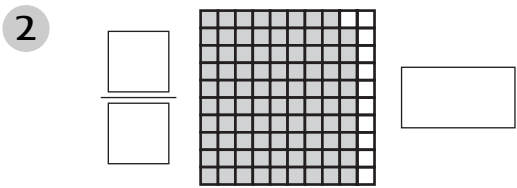
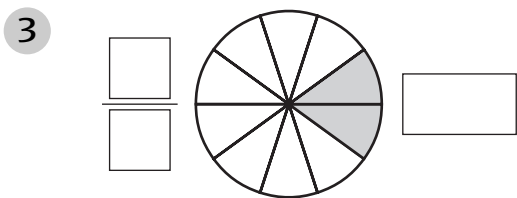
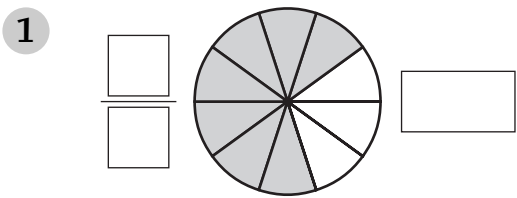
32 $5\frac{64}{100} = \frac{\boxed{}}{\boxed{}}$

Homework Sheet 11: Decimal Fractions

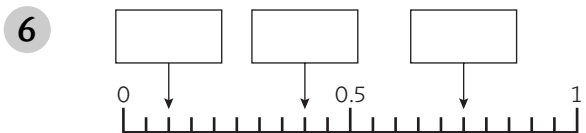
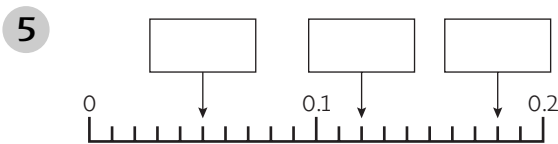
Examples $\frac{3}{10} = 0.3$ $\frac{25}{10} = 2.5$

$\frac{57}{100} = 0.57$ $14\frac{38}{100} = 14.38$

What part of each shape is shaded?
Write your answer as a fraction and as a decimal fraction.



Write the decimal fraction shown by each arrow in the box.



Write the value of the underlined figure.

7 $32.\underline{6}$ $\frac{6}{10}$

10 $8.2\underline{3}$

13 $6.0\underline{5}$

16 $41.\underline{7}2$

8 $13\underline{9}.4$

11 $14.\underline{7}6$

14 $13.\underline{1}$

17 $9.5\underline{3}$

9 $7.\underline{3}$

12 $\underline{2}0.8$

15 $\underline{5}.67$

18 $18.\underline{9}6$

Complete the sequences.

19 0.8 0.85 1.1

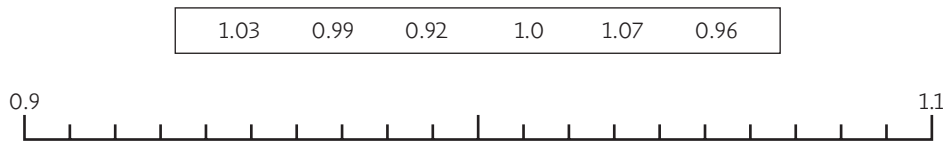
20 2.02 2.04 2.06

Homework Sheet 12: Ordering Decimals

Draw a circle around the larger of each pair of numbers.

- 1 2.5 2.45
- 3 7.99 9.7
- 5 1.1 1.07
- 2 4.35 3.54
- 4 6.75 7.56
- 6 3.38 3.8

7 Locate the numbers on the line.



Arrange the decimals in order. Start with the smallest.

- 8 22.8 8.2 8.02 28.2 2.8
- 9 4 0.4 4.3 0.34 3.4
- 10 3.7 7.3 7.37 3.77 3.37
- 11 6.61 8.6 6.81 8.16 8.61
- 12 2.12 1.21 2.1 1.22 1.2

Complete by writing > (greater than), < (less than) or = in the box.

- 13 5.16 5.61
- 16 79.1 9.71
- 19 42.5 42.50
- 14 2.14 2.3
- 17 4.1 4.02
- 20 8.66 6.89
- 15 8.00 8
- 18 3.17 3.71
- 21 14.3 31.4

Homework Sheet 13: Fractions of Quantities

Examples	$\frac{1}{5}$ of 40p = 40p ÷ 5	$\frac{3}{10}$ of 70 = (70 ÷ 10) × 3
	= 8p	= 7 × 3 = 21

What fraction of £1 is 20p?

Answer = $\frac{20}{100} = \frac{1}{5}$, because £1 = 100p.

Work out.

- | | | |
|--------------------------------------|---|---|
| 1 $\frac{1}{10}$ of 110 | 5 $\frac{3}{10}$ of 80 | 9 $\frac{3}{5}$ of £1 p |
| 2 $\frac{7}{10}$ of 60 | 6 $\frac{1}{10}$ of 230 | 10 $\frac{5}{8}$ of 40 cm cm |
| 3 $\frac{3}{4}$ of 60 | 7 $\frac{1}{6}$ of 90p p | 11 $\frac{3}{4}$ of 1 m cm |
| 4 $\frac{2}{5}$ of 45 | 8 $\frac{83}{100}$ of £1 p | 12 $\frac{9}{10}$ of 1 m cm |

What fraction of:

- | | | |
|---|---|---|
| 13 £1 is 25p $\frac{\square}{\square}$ | 16 1 km is 100 m $\frac{\square}{\square}$ | 19 1 day is 12 hours $\frac{\square}{\square}$ |
| 14 £1 is 15p $\frac{\square}{\square}$ | 17 1 km is 400 m $\frac{\square}{\square}$ | 20 1 week is 2 days $\frac{\square}{\square}$ |
| 15 £1 is 60p $\frac{\square}{\square}$ | 18 1 km is 350 m $\frac{\square}{\square}$ | 21 June is 3 days? $\frac{\square}{\square}$ |

- 22** There are 72 spaces in a car park.
Three eighths of the spaces are empty.
How many cars are in the car park?



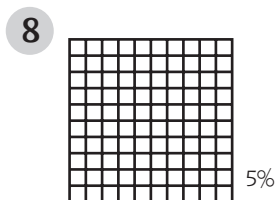
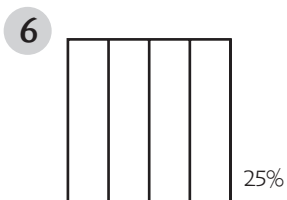
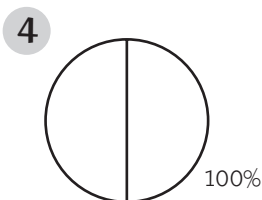
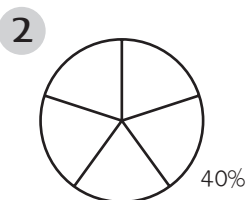
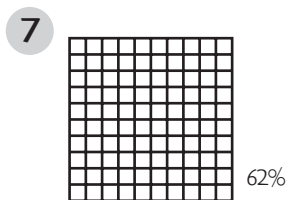
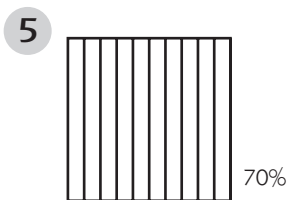
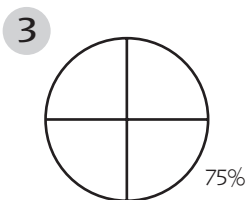
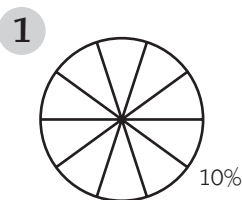
- 23** A shop has 200 packets of cereal.
Three fifths of the packets are sold.
How many are left?

Homework Sheet 14: Percentages

You need to know that:

$1 = \frac{100}{100} = 1.0 = 100\%$	$\frac{1}{4} = \frac{25}{100} = 0.25 = 25\%$
$\frac{1}{10} = \frac{10}{100} = 0.1 = 10\%$	$\frac{1}{2} = \frac{50}{100} = 0.5 = 50\%$
$\frac{1}{5} = \frac{20}{100} = 0.2 = 20\%$	$\frac{3}{4} = \frac{75}{100} = 0.75 = 75\%$
$\frac{1}{100} = 0.01 = 1\%$	

Shade the following percentages.



9 Complete the table.

Fractions	Decimals	Percentages
$\frac{29}{100}$	0.29	29%
$\frac{1}{4}$		
		20%
	0.75	
	0.4	
$\frac{93}{100}$		
	0.1	
		50%
$\frac{3}{5}$		
		80%
	0.03	

10 Three per cent of the children in a school were absent. What percentage were at school? %

11 About 69% of the earth's surface is covered with water. What percentage of the earth's surface is land? %

Homework Sheet 15: Percentages of Numbers

Examples	$30\% \text{ of } 60 = \frac{3}{10} \text{ of } 60$	$75\% \text{ of } £2.00 = \frac{3}{4} \text{ of } £2.00$
	$\frac{1}{10} \text{ of } 60 = 6$	$\frac{1}{4} \text{ of } £2.00 = 50\text{p}$
	$\frac{3}{10} \text{ of } 60 = 3 \times 6 = 18$	$\frac{3}{4} \text{ of } £2.00 = 3 \times 50\text{p} = £1.50$

Find 10% of:

- 1 20²
- 2 80
- 3 50
- 4 70

Find 30% of:

- 5 20
- 6 50
- 7 400
- 8 90

Find 25% of:

- 9 20
- 10 48
- 11 320
- 12 10

Work out.


- 13 10% of 60⁶
- 14 20% of 55
- 15 50% of 150
- 16 25% of 60
- 17 30% of 250
- 18 75% of 1000
- 19 50% of £9
- 20 40% of 60p
- 21 10% of £2.50
- 22 25% of £1.20
- 23 70% of £3.50
- 24 90% of £2.00

- 25 Newcastle United scored 70 goals during the football season.
Their centre forward scored 40% of their goals.
How many goals did he score?

- 26 A dress costs £30.
In a sale the price is reduced by 25%.
What is the new price?

Homework Sheet 16: Ratio and Proportion

Example



1 in every 5 squares is shaded.
For every 1 shaded square there are 4 unshaded.

Complete the patterns by shading squares.

1 1 in every 3 squares is shaded. 

2 1 shaded square for every 1 unshaded. 

3 1 in every 6 squares is shaded. 

4 1 shaded square for every 3 unshaded. 

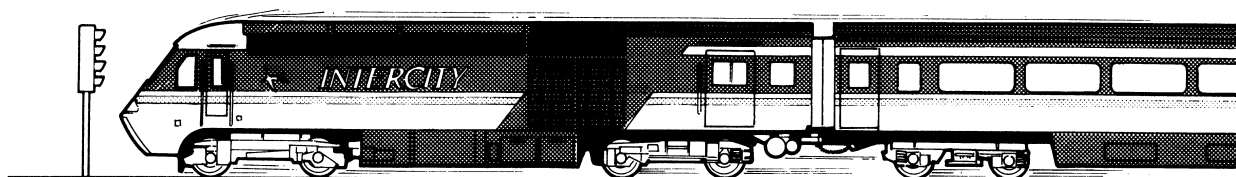
5 1 in every 4 squares is shaded. 

6 1 shaded square for every 2 unshaded. 

7 In a display of 100 flowers there are 2 roses for every 3 carnations.
How many roses are there?

8 A necklace has 50 beads. 3 in every 10 are green.
How many of the beads are not green?

9 There are 120 passengers on a train. 3 in every 8 are adults.
How many of the passengers are adults?



10 An orchard has 5 apple trees for every 2 pear trees.
There are 350 trees in the orchard altogether.
How many are apple trees?

Homework Sheet 17: Addition Facts

Work out.

1 $60 + 70$

2 $90 + 40$

3 $80 + 60$

4 $70 + 90$

5 $50 + 80$

6 $900 + 700$

7 $800 + 800$

8 $700 + 600$

9 $600 + 900$

10 $800 + 500$

11 $0.9 + 0.6$

12 $0.8 + 0.9$

13 $0.6 + 0.6$

14 $0.7 + 0.8$

15 $0.9 + 0.9$

16 $0.8 + 0.7$

17 $0.6 + 0.8$

18 $0.5 + 0.9$

19 $0.9 + 0.8$

20 $0.7 + 0.7$

Write the missing number in the box.

21 $0.4 + \square = 1.0$

22 $0.7 + \square = 1.0$

23 $0.1 + \square = 1.0$

24 $0.5 + \square = 1.0$

25 $0.8 + \square = 1.0$

26 $\square + 52 = 100$

27 $\square + 15 = 100$

28 $\square + 89 = 100$

29 $\square + 33 = 100$

30 $\square + 28 = 100$

31 $7.1 + \square = 10.0$

32 $1.8 + \square = 10.0$

33 $6.4 + \square = 10.0$

34 $8.6 + \square = 10.0$

35 $3.5 + \square = 10.0$

36 $\square + 2.7 = 10.0$

37 $\square + 5.1 = 10.0$

38 $\square + 6.3 = 10.0$

39 $\square + 4.9 = 10.0$

40 $\square + 9.2 = 10.0$

Homework Sheet 18: Subtraction Facts

Work out.

1 $160 - 80$

2 $140 - 60$

3 $200 - 120$

4 $170 - 90$

5 $1500 - 700$

6 $1300 - 500$

7 $1900 - 800$

8 $1400 - 900$

9 $1600 - 700$

10 $1800 - 600$

11 $1600 - 900$

12 $1400 - 700$

13 $1.9 - 1.3$

14 $1.8 - 0.9$

15 $1.5 - 0.8$

16 $1.7 - 0.8$

17 $2.0 - 0.6$

18 $1.3 - 0.7$

19 $1.9 - 1.1$

20 $1.5 - 0.6$

Write the missing number in the box.

21 $1.0 - 0.2 =$

22 $1.0 - 0.9 =$

23 $1.0 -$ $= 0.6$

24 $1.0 -$ $= 0.3$

25 $100 - 41 =$

26 $100 - 78 =$

27 $100 -$ $= 94$

28 $100 -$ $= 26$

29 $100 - 63 =$

30 $100 - 52 =$

31 $100 -$ $= 35$

32 $100 -$ $= 87$

33 $10.0 - 2.5 =$

34 $10.0 - 5.7 =$

35 $10.0 -$ $= 9.2$

36 $10.0 -$ $= 1.9$

37 $10.0 - 7.3 =$

38 $10.0 - 4.4 =$

39 $10.0 -$ $= 3.1$

40 $10.0 -$ $= 0.6$

Homework Sheet 19: Partitioning

Examples

$$256 + 48 = 250 + 40 + 6 + 8 \quad 236 - 48 = 236 - 40 - 8$$

$$= 290 + 14 \quad = 196 - 8$$

$$= 304 \quad = 188$$

Complete by writing the missing numbers.

1 $224 + 52 = 220 + 50 + 4 + 2$

$= \boxed{270} + \boxed{}$

$= \boxed{}$

6 $573 - 86 = 573 - 80 - 6$

$= \boxed{} - 6$

$= \boxed{}$

2 $369 + 75 = 360 + \boxed{} + 9 + \boxed{}$

$= \boxed{} + \boxed{}$

$= \boxed{}$

7 $341 - 63 = 341 - \boxed{} - \boxed{}$

$341 - 63 = \boxed{} - \boxed{}$

$= \boxed{}$

3 $156 + 94 = \boxed{} + \boxed{} + \boxed{} + \boxed{}$

$= \boxed{} + \boxed{}$

$= \boxed{}$

8 $697 - 72 = \boxed{} - \boxed{} - \boxed{}$

$= \boxed{} - \boxed{}$

$= \boxed{}$

4 $438 + 65 = \boxed{} + \boxed{} + \boxed{} + \boxed{}$

$= \boxed{} + \boxed{}$

$= \boxed{}$

9 $412 - 97 = \boxed{} - \boxed{} - \boxed{}$

$= \boxed{} - \boxed{}$

$= \boxed{}$

5 $285 + 47 = \boxed{} + \boxed{} + \boxed{} + \boxed{}$

$= \boxed{} + \boxed{}$

$= \boxed{}$

10 $160 - 84 = \boxed{} - \boxed{} - \boxed{}$

$= \boxed{} - \boxed{}$

$= \boxed{}$

Work out mentally.

11 $137 + 44 \dots\dots\dots$

15 $468 + 83 \dots\dots\dots$

19 $149 + 55 \dots\dots\dots$

12 $395 + 67 \dots\dots\dots$

16 $386 + 78 \dots\dots\dots$

20 $574 + 99 \dots\dots\dots$

13 $252 - 75 \dots\dots\dots$

17 $643 - 84 \dots\dots\dots$

21 $450 - 76 \dots\dots\dots$

14 $534 - 76 \dots\dots\dots$

18 $221 - 93 \dots\dots\dots$

22 $306 - 48 \dots\dots\dots$

Homework Sheet 20: Informal Methods for Addition

Examples	$\begin{array}{r} 2638 \\ + 789 \\ \hline \end{array}$		$\begin{array}{r} 749 \\ + 263 \\ \hline \end{array}$	
Add largest value digits first	$\begin{array}{r} 2000 \\ 1300 \\ 110 \\ 17 \\ \hline 3427 \end{array}$	Compensation	$\begin{array}{r} 1049 \\ - 37 \\ \hline 1012 \end{array}$	<p>(749 + 300)</p> <p>(300 - 263)</p>

Add largest value digits first.

1

$$\begin{array}{r} 329 \\ + 156 \\ \hline \end{array}$$

.....

.....

3

$$\begin{array}{r} 853 \\ + 478 \\ \hline \end{array}$$

.....

.....

5

$$\begin{array}{r} 885 \\ + 596 \\ \hline \end{array}$$

.....

.....

7

$$\begin{array}{r} 1496 \\ + 779 \\ \hline \end{array}$$

.....

.....

2

$$\begin{array}{r} 674 \\ + 283 \\ \hline \end{array}$$

.....

.....

4

$$\begin{array}{r} 967 \\ + 645 \\ \hline \end{array}$$

.....

.....

6

$$\begin{array}{r} 742 \\ + 387 \\ \hline \end{array}$$

.....

.....

8

$$\begin{array}{r} 2587 \\ + 1634 \\ \hline \end{array}$$

.....

.....

Use the compensation method.

9

$$\begin{array}{r} 437 \\ + 185 \\ \hline \end{array}$$

.....

11

$$\begin{array}{r} 762 \\ + 358 \\ \hline \end{array}$$

.....

13

$$\begin{array}{r} 984 \\ + 467 \\ \hline \end{array}$$

.....

15

$$\begin{array}{r} 2714 \\ + 693 \\ \hline \end{array}$$

.....

10

$$\begin{array}{r} 585 \\ + 276 \\ \hline \end{array}$$

.....

12

$$\begin{array}{r} 657 \\ + 549 \\ \hline \end{array}$$

.....

14

$$\begin{array}{r} 1365 \\ + 782 \\ \hline \end{array}$$

.....

16

$$\begin{array}{r} 3053 \\ + 374 \\ \hline \end{array}$$

.....

Homework Sheet 21: Standard Method for Addition

Examples

$$\begin{array}{r} 643 \\ + 287 \\ \hline 930 \\ 11 \end{array}$$

$$\begin{array}{r} 1368 \\ + 725 \\ \hline 2093 \\ 1 \quad 1 \end{array}$$

$$\begin{array}{r} 2653 \\ + 1892 \\ \hline 4545 \\ 11 \end{array}$$

Remember to add the carried figure.

Work out.

$$\begin{array}{r} \textcircled{1} \quad 293 \\ + \quad 54 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{6} \quad 573 \\ + \quad 244 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{11} \quad 982 \\ + \quad 447 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{16} \quad 2594 \\ + \quad 686 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{2} \quad 368 \\ + \quad 25 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{7} \quad 537 \\ + \quad 518 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{12} \quad 873 \\ + \quad 259 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{17} \quad 2362 \\ + \quad 1575 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{3} \quad 457 \\ + \quad 62 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{8} \quad 768 \\ + \quad 429 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{13} \quad 1749 \\ + \quad 736 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{18} \quad 3436 \\ + \quad 1287 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{4} \quad 524 \\ + \quad 98 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{9} \quad 954 \\ + \quad 283 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{14} \quad 1857 \\ + \quad 194 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{19} \quad 2699 \\ + \quad 1635 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{5} \quad 625 \\ + \quad 56 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{10} \quad 648 \\ + \quad 365 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{15} \quad 1385 \\ + \quad 514 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{20} \quad 3876 \\ + \quad 2589 \\ \hline \end{array}$$

Homework Sheet 22: Informal Method for Subtraction

<p>Examples</p> $\begin{array}{r} 824 \\ - 459 \\ \hline \end{array}$ <p>Counting up</p> $\begin{array}{r} 41 \text{ (to make 500)} \\ 324 \text{ (to make 824)} \\ \hline 365 \end{array}$	$\begin{array}{r} 824 \\ - 459 \\ \hline 324 \text{ (824 - 500)} \\ 41 \text{ (500 - 459)} \\ \hline 365 \end{array}$ <p>Compensation</p>
---	---

Use counting up.

1

$$\begin{array}{r} 363 \\ - 188 \\ \hline \dots\dots \\ \hline \hline \end{array}$$

3

$$\begin{array}{r} 225 \\ - 167 \\ \hline \dots\dots \\ \hline \hline \end{array}$$

5

$$\begin{array}{r} 574 \\ - 355 \\ \hline \dots\dots \\ \hline \hline \end{array}$$

7

$$\begin{array}{r} 607 \\ - 238 \\ \hline \dots\dots \\ \hline \hline \end{array}$$

2

$$\begin{array}{r} 721 \\ - 349 \\ \hline \dots\dots \\ \hline \hline \end{array}$$

4

$$\begin{array}{r} 413 \\ - 294 \\ \hline \dots\dots \\ \hline \hline \end{array}$$

6

$$\begin{array}{r} 522 \\ + 279 \\ \hline \dots\dots \\ \hline \hline \end{array}$$

8

$$\begin{array}{r} 950 \\ - 353 \\ \hline \dots\dots \\ \hline \hline \end{array}$$

Use compensation.

9

$$\begin{array}{r} 634 \\ - 475 \\ \hline \dots\dots \\ \hline \hline \end{array}$$

11

$$\begin{array}{r} 840 \\ - 336 \\ \hline \dots\dots \\ \hline \hline \end{array}$$

13

$$\begin{array}{r} 451 \\ - 187 \\ \hline \dots\dots \\ \hline \hline \end{array}$$

15

$$\begin{array}{r} 723 \\ - 545 \\ \hline \dots\dots \\ \hline \hline \end{array}$$

10

$$\begin{array}{r} 942 \\ - 256 \\ \hline \dots\dots \\ \hline \hline \end{array}$$

12

$$\begin{array}{r} 736 \\ - 128 \\ \hline \dots\dots \\ \hline \hline \end{array}$$

14

$$\begin{array}{r} 845 \\ - 566 \\ \hline \dots\dots \\ \hline \hline \end{array}$$

16

$$\begin{array}{r} 352 \\ - 257 \\ \hline \dots\dots \\ \hline \hline \end{array}$$

17 Steve fired 615 arrows but only 184 hit the target.

How many missed the target?

Homework Sheet 23: Standard Method for Subtraction

Examples

$$\begin{array}{r} \overset{5}{\cancel{5}}14 \\ - 138 \\ \hline 426 \end{array}$$

$$\begin{array}{r} \overset{2}{\cancel{2}}175 \\ - 284 \\ \hline 91 \end{array}$$

$$\begin{array}{r} \overset{5}{\cancel{6}}\overset{13}{\cancel{4}}10 \\ - 175 \\ \hline 465 \end{array}$$

This method is called decomposition.

Work out.

$$\begin{array}{r} \textcircled{1} \quad 372 \\ - 136 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{6} \quad 639 \\ - 457 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{11} \quad 458 \\ - 393 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{16} \quad 962 \\ - 483 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{2} \quad 536 \\ - 251 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{7} \quad 950 \\ - 642 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{12} \quad 374 \\ - 168 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{17} \quad 617 \\ - 346 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{3} \quad 825 \\ - 419 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{8} \quad 517 \\ - 363 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{13} \quad 623 \\ - 275 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{18} \quad 430 \\ - 375 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{4} \quad 414 \\ - 307 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{9} \quad 242 \\ - 138 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{14} \quad 731 \\ - 469 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{19} \quad 845 \\ - 228 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{5} \quad 761 \\ - 235 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{10} \quad 815 \\ - 172 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{15} \quad 509 \\ - 374 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{20} \quad 756 \\ - 279 \\ \hline \end{array}$$

