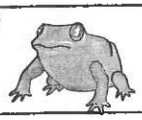


Written Addition

Mental Maths Warm Up

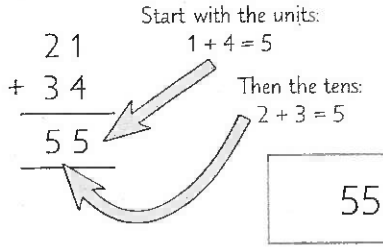
Answer these as quickly as you can, saying your answer out loud or in your head...

1) Think of 5 pairs of numbers that add to 10.
2) Say the value of each digit in the number 12345.
3) Work out 17 + 5 in your head.
4) Work out 3 + 4 + 5 in your head.

Answers: 1) E.g. 1+9, 2+8, 3+7, 4+6, 5+5 2) one ten thousand, two thousands, three hundreds, four tens, five ones 3) 22 4) 12

Now try these. Do your working in the spaces, and copy your answers into the boxes. One has been done for you.

1) 21 + 34



55

2) 15 + 64

79

1 mark

3) 38 + 45

83

1 mark

4) 73 + 87

160

1 mark

5) 94 + 38

132

1 mark

6) 134 + 451

585

1 mark

7) 208 + 512

720

1 mark

8) 337 + 228

565

1 mark

Written Addition

9) 791 + 148

939

1 mark

10) 652 + 547

1199
~~1399~~

1 mark

11) 484 + 267

751

1 mark

12) 227 + 583

810

1 mark

13) 953 + 787

1740

1 mark

14) 2134 + 3421

5555

1 mark

15) 54 + 210

Make sure you line up the digits in columns carefully!

264

1 mark

16) 94 + 701

795

1 mark

17) 942 + 30

972

1 mark

18) 7787 + 999

You could do 7787 + 1000 – 1 if you find it easier.

8786

1 mark

Written Addition

19) 202 + 8798

9000

1 mark

20) 27350 + 34201

63551

1 mark

21) 86425 + 57386

143811

1 mark

22) 27287 + 3443

30730

1 mark

23) 222 + 33 + 44

Adding three numbers works just the same as adding two numbers together.

299

1 mark

24) 207 + 304 + 442

953

1 mark

25) 1422 + 337 + 61

1820

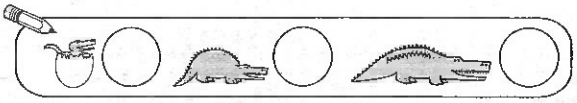
1 mark

26) 88888 + 777 + 4444

94109

1 mark

A Calcugator can add up numbers with more than 4 digits in columns. Can you? Tick the box.



Written Subtraction

Mental Maths Warm Up

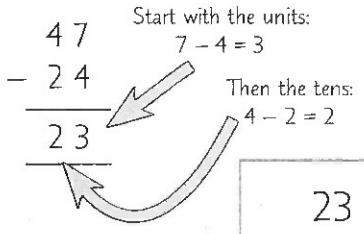
Answer these as quickly as you can, saying your answer out loud or in your head...

1) What number is in the tens column of 683?
2) What is 8 – 3?
3) Take away 5 from 27.
4) Take 20 away from 60.

Answers: 1) 8 2) 5 3) 22 4) 40

Now try these. Do your working in the spaces, and copy your answers into the boxes. One has been done for you.

1) 47 – 24



23

2) 58 – 26

32

1 mark

3) 95 – 13

82

1 mark

4) 64 – 26

You'll have to exchange a ten for 10 ones to answer this one.

38

1 mark

5) 867 – 146

721

1 mark

6) 749 – 238

511

1 mark

7) 841 – 340

501

1 mark

8) 267 – 149

118

1 mark

Written Subtraction

9) 694 – 258

You could check your answers by adding.

436

1 mark

10) 280 – 176

104

1 mark

11) 661 – 380

281

1 mark

12) 70 – 8

62

1 mark

13) 329 – 15

Make sure you line up the hundreds, tens and ones.

314

1 mark

14) 798 – 37

761

1 mark

15) 584 – 36

548

1 mark

16) 997 – 968

29

1 mark

17) 834 – 762

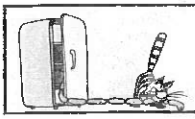
72

1 mark

18) 942 – 857

85

1 mark



Written Subtraction

It can help to line up the ones when you subtract numbers with different numbers of digits.

19) 6485 – 3261

3224

1 mark

20) 7354 – 5426

1928

1 mark

21) 5843 – 217

5626

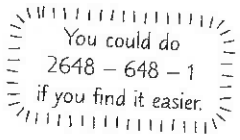
1 mark

22) 3251 – 198

3053

1 mark

23) 2648 – 649



1999

1 mark

24) 3344 – 444

2900

1 mark

25) 6271 – 349

5922

1 mark

26) 9064 – 318

8746

1 mark

Written Subtraction

27) 82578 – 2210

80368

1 mark

28) 68545 – 68

68477

1 mark

29) 45876 – 6863

39013

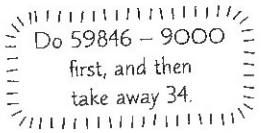
1 mark

30) 25186 – 6446

18740

1 mark

31) 59846 – 9000 – 34



50812

1 mark

32) 25498 – 5586 – 12

19900

1 mark

33) 19861 – 234 – 67

19560

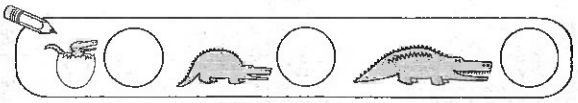
1 mark

34) 76519 – 2056 – 35

74428

1 mark

Calcugators love subtracting numbers in columns. They do it all the time. How did you do?



Multiplying by 10, 100 and 1000

Mental Maths Warm Up

Answer these as quickly as you can, saying your answer out loud or in your head...

1) 16 multiplied by what gives you 1600?
2) Find the missing number. 568 × ? = 5680
3) There are 1000 times more flowers in a field in spring than in winter. If there are 47 in winter, how many are there in spring?

Answers: 1) 100 2) 10 3) 47000

Now try these questions, and write your answers in the boxes. One has been done for you.

1) 13 × 10

10 has one zero, so move the digits in 13 one place to the left.

13 → 13_ → 130 ⇐ Fill in the gap with a 0.

130

2) 59 × 100

To multiply by 100, move the digits two places to the left.

5900

1 mark

3) 873 × 10

8730

1 mark

4) 6437 × 100

643700

1 mark

5) 761 × 1000

To multiply by 1000, move the digits three places to the left.

761000

1 mark

6) 9530 × 10

95300

1 mark

7) 4005 × 1000

4005000

~~405~~

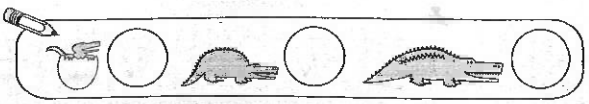
1 mark

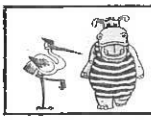
8) 910 × 1000

910000

1 mark

Calcugators remember to move the digits to the left when multiplying by 10, 100 and 1000. Did you?





Dividing by 10, 100 and 1000

Mental Maths Warm Up

Answer these as quickly as you can, saying your answer out loud or in your head...

1) What should you divide 30 by to get 3?
2) 32000 divided by what gives you 32?
3) What is 900 ÷ 100?
4) Find the missing number. 600 ÷ ? = 60

Answers: 1) 10 2) 1000 3) 9 4) 10

Now try these questions, and write your answers in the boxes. One has been done for you.

1) 70 ÷ 10

10 has one zero, so move the digits in 70 one place to the right.

70 ⟶ 7 ⟸ This is the same as knocking off one 0.

7

2) 550 ÷ 10

55

1 mark

3) 9800 ÷ 100

To divide by 100, move the digits two places to the right.

98

1 mark

4) 1600 ÷ 10

160

1 mark

5) 74000 ÷ 100

740

1 mark

6) 3000 ÷ 1000

To divide by 1000, move the digits three places to the right.

3

1 mark

7) 68000 ÷ 1000

68

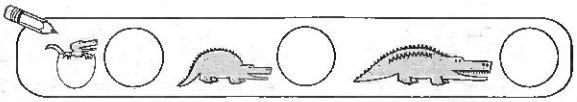
1 mark

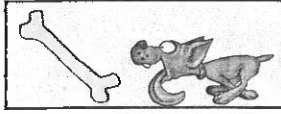
8) 40000 ÷ 1000

40

1 mark

If you like moving digits to the right like Calcugators, then you'll find this page OK. How do you feel?





Using Times Tables

Mental Maths Warm Up

Answer these as quickly as you can, saying your answer out loud or in your head...

1) Say the 4 times table up to 5 × 4 out loud.
2) 12 × 7 = 84. What is 13 × 7?
3) 15 × 6 = 90. What is 6 × 15?
4) Is 35 in the 8 times table?

Answers: 1) 1 × 4 = 4, 2 × 4 = 8, 3 × 4 = 12, 4 × 4 = 16, 5 × 4 = 20
2) 91 3) 90 4) No

Now try these. Put your answers in the boxes.

1) 3 × 11

33

1 mark

2) 2 × 12

24

1 mark

3) 5 × 9

45

1 mark

4) 11 × 10

110

1 mark

5) 5 × 7

5 × 7 is the same as 7 × 5.

35

1 mark

6) 6 × 8

48

1 mark

7) 9 × 3

27

1 mark

8) 12 × 12

144

1 mark

Using Times Tables

Now try using your times tables to divide. One has been done for you.

9) 12 ÷ 6

$2 \times 6 = 12$, ← You're looking for where 12 appears in the 6 times table.

so $12 \div 6 = 2$

2

10) 24 ÷ 2

12

1 mark

11) 18 ÷ 6

3

1 mark

12) 55 ÷ 5

11

1 mark

13) 28 ÷ 7

4

1 mark

14) 56 ÷ 7

8

1 mark

15) 72 ÷ 8

9

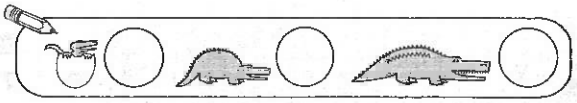
1 mark

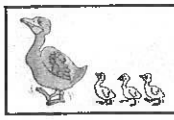
16) 108 ÷ 12

9

1 mark

Are you a whizz at your times tables, just like a Calcugator? Tick the box to show how you did.





Multiples and Factors

Mental Maths Warm Up

Answer these as quickly as you can, saying your answer out loud or in your head...

1) List all the prime numbers up to 20.
2) Which of these is **not** a factor of 126? 2 or 3 or 5
3) Find two numbers which both have 3 **and** 6 as factors.
4) Find a number that's a multiple of both 2 **and** 9.

Answers: 1) 2, 3, 5, 7, 11, 13, 17, 19
2) 5 3) E.g. 6 and 12 4) E.g. 18

Now try Questions 1 to 4. Write down the first five multiples of each number. One has been done for you

1) 7

The multiples of a number are just the numbers in its times table.

7, 14, 21, 28, 35

2) 25

25, 50, 75, 100, 125

1 mark

3) 80

80, 160, 240, 320, 400

1 mark

4) 36

36, 72, 108, 144, 180

1 mark

For Questions 5 and 6, find all the factors of each number.

5) 24

The factors of 24 are all the numbers that 24 divides by exactly.

1, 2, 3, 4, 6, 8, 12, 24

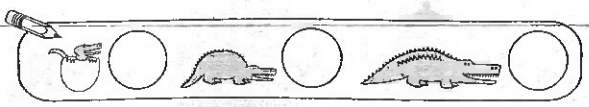
1 mark

6) 63

1, 3, 7, 9, 21, 63

1 mark

Calcugators like to find multiples and factors of every number they meet. How easy did you find it?



Short Multiplication

Mental Maths Warm Up

Answer these as quickly as you can, saying your answer out loud or in your head...

1) Find the missing number. $18 \times 5 = 5 \times ?$
2) What is 7×3?
3) What is 50×3?
4) Work out 57×3.

Answers: 1) 18 2) 21 3) 150 4) 171

Now try these. Do your working in the spaces, and copy your answers into the boxes. One has been done for you.

1) 27×6

$$\begin{array}{r} 27 \\ \times\ 6 \\ \hline 162 \\ \hline {\scriptstyle 4} \end{array}$$

$7 \times 6 = 42$, so put 2 in the units column and carry the 4 to the tens column.

$2 \times 6 = 12$, then add the 4 you carried to get 16

162

1 mark

2) 52×8

416

1 mark

3) 18×7

126

1 mark

4) 76×3

228

1 mark

5) 85×4

340

1 mark

6) 439×9

3951

1 mark

Short Multiplication

7) 5115 × 5

25575

1 mark

8) 1495 × 3

4485

1 mark

9) 1986 × 4

7944

1 mark

10) 4275 × 2

8550

1 mark

11) 8495 × 4

33980

1 mark

12) 3196 × 9

28764

1 mark

13) 2014 × 7

14098

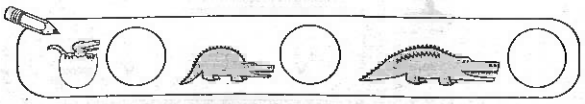
1 mark

14) 2035 × 8

16280

1 mark

Calcugators love writing out multiplications in columns. How about you? Tick the box.



Long Multiplication

Mental Maths Warm Up

Answer these as quickly as you can, saying your answer out loud or in your head...

1) Mary buys 19 stickers each for 12 friends. Estimate how many stickers she buys.
2) Estimate the answer to 399 × 19.
3) Partition the number 19 to make it easier to multiply by.
4) What is 400 × 30?

Answers: 1) E.g. 200 (20 × 10) 2) E.g. 8000 (400 × 20) 3) 1 ten and 9 ones 4) 12000

Now try these. Do your working in the spaces, and copy your answers into the boxes. One has been done for you.

1)
$$\begin{array}{r} 247 \\ \times\ 28 \\ \hline 1976 \\ \hline 4940 \\ \hline 6916 \\ \hline 11 \end{array}$$

3 5

1

First find 247 × 8 using short multiplication.

Then find 247 × 20. This is the same as multiplying by 2, then moving the digits one place to the left.

Finally, add up your two answers: 1976 + 4940 = 6916

6916

3)
$$\begin{array}{r} 685 \\ \times\ 71 \\ \hline 685 \\ 47950 \\ \hline 48635 \end{array}$$

48635

2 marks

2)
$$\begin{array}{r} 284 \\ \times\ 23 \\ \hline 852 \\ 5680 \\ \hline 6532 \end{array}$$

Make sure you show your working for these 2 mark questions.

4)
$$\begin{array}{r} 768 \\ \times\ 32 \\ \hline \cancel{1536} \\ \cancel{30} \\ 1536 \\ 23040 \\ \hline 24576 \end{array}$$

2 marks for the correct answer, 1 mark if the answer is wrong but a correct method has been used.

6532

2 marks

2 marks

Long Multiplication

5) 5856 × 36

35136
175680
210816

210816

2 marks

6) 1955 × 54

7820
97750
105570

Use estimating to check your answer.

105570

2 marks

7) 3296 × 22

6592
65920
72512

72512

2 marks

8) 7842 × 68

62736
470520
533256

533256

2 marks

9) 4444 × 44

17776
177760
195536

195536

2 marks

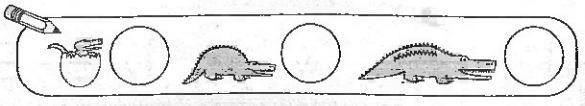
10) 8888 × 88

71104
711040
782144

782144

2 marks

A Calcugator enjoys using long multiplication to find the right answer. How did you find these pages?



Short Division with No Remainders

Mental Maths Warm Up

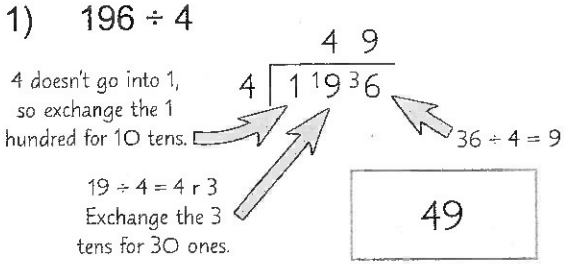
Answer these as quickly as you can, saying your answer out loud or in your head...

1) Partition 245 into hundreds, tens and ones.
2) What's 400 divided by 4?
3) Abed has 240 books. He divides them equally between three shelves. How many books does he have on each shelf?
4) What is 540 ÷ 9?

Answers: 1) 2 hundreds, 4 tens and 5 ones
2) 100 3) 80 4) 60

Now try these. Do your working in the spaces, and copy your answers into the boxes. One has been done for you.

1) 196 ÷ 4



49

2) 108 ÷ 6

18

1 mark

3) 207 ÷ 9

23

1 mark

4) 448 ÷ 7

64

1 mark

5) 352 ÷ 4

88

1 mark

6) 728 ÷ 7

104

1 mark

7) 696 ÷ 8

87

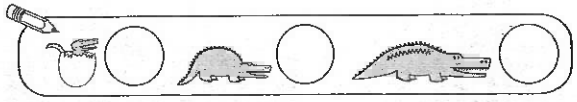
1 mark

8) 495 ÷ 5

99

1 mark

Calcugators are experts at setting out short division properly. How about you? Tick the box.



Short Division with Remainders

Mental Maths Warm Up

Answer these as quickly as you can, saying your answer out loud or in your head...

1) Partition 3694 into thousands, hundreds, tens and ones.
2) Phil has 43 toy cars which he divides evenly between 4 boxes. How many are left over?
3) 5 ÷ 2 = 2 r 1. Write the remainder as a fraction.
4) 617 ÷ 8 leaves a remainder of 1. What is the remainder as a fraction?

Answers: 1) 3 thousands, 6 hundreds, 9 tens and 4 ones
2) 3 3) $\frac{1}{2}$ 4) $\frac{1}{8}$

For each of these questions, write the remainder as a whole number.
One has been done for you.

1) 212 ÷ 8

$$\begin{array}{r} 26\ r\ 4 \\ 8\overline{)\,21^{5}2} \end{array}$$

21 ÷ 8 = 2 r 5. Put a 2 on the top and exchange the 5 tens for 50 ones.

52 ÷ 8 = 6 r 4

26 r 4

2) 875 ÷ 4

218 r 3

1 mark

3) 267 ÷ 7

38 r 1

1 mark

4) 386 ÷ 3

128 r 2

1 mark

5) 435 ÷ 4

108 r 3

1 mark

6) 505 ÷ 9

56 r 1

1 mark

7) 5489 ÷ 8

686 r 1

1 mark

8) 1247 ÷ 6

207 r 5

1 mark

Short Division with Remainders

For each of these questions write the remainder as a fraction. One has been done for you.

9) 399 ÷ 5

$$5\overline{)3\ 9^{4}9} \quad 7\ 9 \text{ r } 4 = 79\frac{4}{5}$$

You're dividing by 5, so the remainder of 4 becomes a fraction of $\frac{4}{5}$.

$79\frac{4}{5}$

10) 445 ÷ 2

Remember — remainders written as fractions have the number you're dividing by on the bottom.

$222\frac{1}{2}$

1 mark

11) 658 ÷ 3

$219\frac{1}{3}$

1 mark

12) 157 ÷ 6

$26\frac{1}{6}$

1 mark

13) 3587 ÷ 4

$896\frac{3}{4}$

1 mark

14) 7864 ÷ 9

$873\frac{7}{9}$

1 mark

15) 5050 ÷ 7

$721\frac{3}{7}$

1 mark

16) 2453 ÷ 8

$306\frac{5}{8}$

1 mark

Calcugators can write remainders in different ways. What about you? Tick the box.