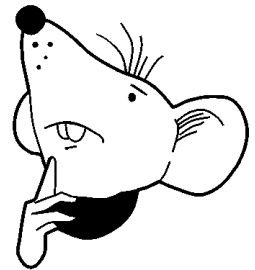
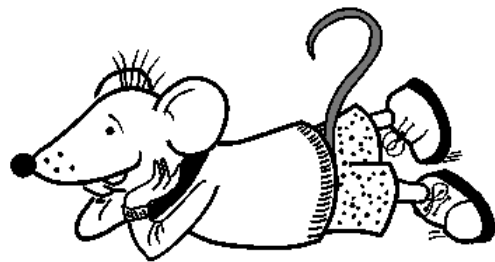
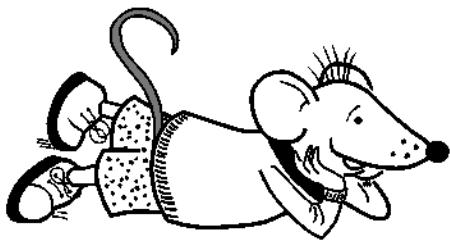


MENTAL ARITHMETIC



YEAR 4

AUTUMN TERM



MathSphere

MENTAL ARITHMETIC : YEAR 4 : AUTUMN TERM : WEEK 1

Paper 1	Answer	Paper 2	Answer
1. Write in figures: Two thousand, five hundred and forty.	2 540	1. Write in figures: Five thousand, seven hundred and eighty three.	5 783
2. What does the figure 7 stand for in the number 6 479?	70	2. What does the figure 9 stand for in the number 3 953?	900
3. Write in figures the number: five thousand, six hundred.	5 600	3. Write in figures the number: seven thousand, eight hundred.	7 800
4. What is the biggest number you can make with the digits: 3, 8, 4, 2, 9 ?	98 432	4. What is the smallest number you can make with the digits: 9, 5, 2, 7, 1 ?	12 579
5. What is one more than 3 679 ?	3 680	5. What is one more than 7 559 ?	7 560
6. What is seven more than 785?	792	6. What is eight more than 333 ?	341
7. What is 45 multiplied by 10 ?	450	7. What is 28 multiplied by 10 ?	280
8. How many times is 340 bigger than 34 ?	10	8. How many times is 670 bigger than 67 ?	10
9. Which is greater, 3 546 or 3 456 ?	3 546	9. Which is smaller, 7 477 or 7 774 ?	7 477
10. What is the next number in this sequence: 34, 44, 54, 64, _____ ?	74	10. What is the next number in this sequence: 22, 32, 42, 52, _____ ?	62
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 4 : AUTUMN TERM : WEEK 2

Paper 3	Answer	Paper 4	Answer
1. What number is halfway between 46 and 52 ?	49	1. What number is halfway between 122 and 128 ?	125
2. What number is missing in this sequence: 8, 12, 16, <input type="text"/> , 24	20	2. What number is missing in this sequence: 5, 8, 11, <input type="text"/> , 17	14
3. A number is bigger than 804 and smaller than 810. What could the number be?	805 806 807 808 or 809	3. A number is bigger than 345 and smaller than 350. What could the number be?	346 347 348 or 349
4. Which is the smallest of these numbers: 34, 56, 78, 24, 45 ?	24	4. Which is the smallest of these numbers: 78, 46, 56, 55, 91 ?	46
5. How many sides does a hexagon have?	6	5. How many sides does a decagon have?	10
6. Which shape has five sides?	<i>pentagon</i>	6. Which shape has seven sides?	<i>heptagon</i>
7. What is 654 to the nearest 10 ?	650	7. What is 738 to the nearest 10 ?	740
8. Which number comes between -3 and -5 ?	-4	8. Which number comes between -8 and -10 ?	-9
9. Write down a number in the six times table bigger than 20 and smaller than 28.	24	9. Write down a number in the five times table bigger than 43 and smaller than 48.	45
10. Write down a number between twenty and thirty that is divisible by 4 and by 6.	24	10. Write down a number between thirty eight and forty-two that is divisible by 4 and by 5.	40
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 4 : AUTUMN TERM : WEEK 3

Paper 5	Answer	Paper 6	Answer
1. Which of these numbers divide exactly by five: 12, 23, 45, 23, 60 ?	45 and 60	1. Which of these numbers divide exactly by four: 8, 32, 27, 39, 23 ?	8 and 32
2. Michael has 23 sweets. He shares them equally between four girls. How many does he have left over?	3	2. Simon has 34 dog biscuits. He shares them equally between five dogs. How many does he have left over?	4
3. Is two quarters the same as: One third One half or One fifth?	One half	3. Which is biggest: One half One quarter or One third?	One half
4. What is one tenth of 60 ?	6	4. What is one tenth of 80 ?	8
5. What is one fifth of 25 ?	5	5. What is one half of 19 ?	9½
6. There are five school days in one week. How many school days are there in eight weeks?	40	6. There are six tins in a pack of cat food. How many tins are there in five packs?	30
7. How many pennies are there in one pound?	100	7. How many pennies are there in three pounds?	300
8. How many pennies are there in six pounds?	600	8. How many pennies are there in eight pounds?	800
9. Add 27 and 52.	79	9. Add 40 and 33.	73
10. What number do I need to add to 23 to get 32?	9	10. What number do I need to add to 38 to get 49?	11
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 4 : AUTUMN TERM : WEEK 4

Paper 7	Answer	Paper 8	Answer
1. Take 8 away from 15.	7	1. Take 9 away from 23.	14
2. What is 23 subtract 15 ?	8	2. What is 35 subtract 13 ?	22
3. What is the difference between 20 and 27 ?	7	3. What is the difference between 32 and 40 ?	8
4. What must I add to 15 to get to 20 ?	5	4. What must I add to 27 to get 40 ?	13
5. What must I add to 85 to get 100 ?	15	5. What must I add to 76 to get 100 ?	24
6. If $17 + 23 = 40$, what is $40 - 17$?	23	6. If $28 + 37 = 65$, what is $65 - 37$?	28
7. What are three elevens?	33	7. What are four twelves?	48
8. Double 17.	34	8. Double 26.	52
9. What is one-half of 48 ?	24	9. What is one-half of 38 ?	19
10. Tickets to a concert cost £3 each. Michelle has £25. How many tickets can she buy?	8	10. Maximus chocolate bars cost 30p each. Terry has £1. How many Maximus bars can he buy?	3
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 4 : AUTUMN TERM : WEEK 5

Paper 9	Answer	Paper 10	Answer
1. How many threes are there in 21 ?	7	1. How many fives are there in 40 ?	8
2. What are eight fours?	32	2. What are seven fives?	35
3. What is ten times 5 ?	50	3. What is ten times 9 ?	90
4. Which of these numbers is not divisible by 4: 12, 16, 22, 28 ?	22	4. Which of these numbers is not divisible by 2: 24, 21, 20, 18 ?	21
5. Which of these numbers is not divisible by 5: 17, 20, 35, 50, 55	17	5. Which of these numbers is not divisible by 3: 24, 30, 18, 12, 26	26
6. How many tens are there in 90 ?	9	6. How many tens are there in 70 ?	7
7. What is eight multiplied by zero?	0	7. What is ten multiplied by zero?	0
8. How many threes are there in 27 ?	9	8. How many fours are there in 32 ?	8
9. What is 3 times 6 times 0 ?	0	9. What is 9 times 4 times 0 ?	0
10. What is 27 shared between nine?	3	10. What is 36 shared between four?	9
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 4 : AUTUMN TERM : WEEK 6

Paper 11	Answer	Paper 12	Answer
1. Double and double again to work out: 24 × 4.	96	1. Double and double again to work out: 36 × 4.	144
2. Multiply by ten and divide by two to work out: 16 × 5.	80	2. Multiply by ten and divide by two to work out: 24 × 5.	120
3. What is 34 × 11 ?	374	3. What is 45 × 11 ?	495
4. Double 35.	70	4. Double 75.	150
5. What is a half of 150 ?	75	5. What is a half of 230 ?	115
6. What is 25 + 35 ?	60	6. What is 65 + 45 ?	110
7. How many sides does a quadrilateral have?	4	7. How many sides does a rectangle have?	4
8. How many equal sides does an equilateral triangle have?	3	8. How many equal sides does an isosceles triangle have?	2
9. How many faces does a cube have?	6	9. How many faces does a cuboid have?	6
10. How many right angles does a rectangle have?	4	10. How many right angles does a regular hexagon have?	0
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 4 : AUTUMN TERM : WEEK 7

Paper 13	Answer	Paper 14	Answer
1. What does the digit 5 stand for in the number 8 564?	500	1. What does the digit 8 stand for in the number 9 387?	80
2. What is one more than 6 799 ?	6 800	2. What is eight more than 5 298 ?	5 306
3. What is 27 multiplied by 100 ?	2 700	3. What is 49 multiplied by 100 ?	4 900
4. Add together 15, 22 and 40.	77	4. Add together 45, 12 and 32.	89
5. What is the next term in this sequence: 23, 27, 31, 35, ____ ?	39	5. What is the next term in this sequence: 16, 22, 28, 34, ____ ?	40
6. Write in figures the number: eight thousand, three hundred and fifty two.	8 352	6. Write in figures the number: seven thousand, nine hundred and sixty four.	7 964
7. How many times is 5 600 bigger than 56 ?	100	7. How many times is 8 800 bigger than 88 ?	100
8. Which number is half way between 560 and 568 ?	564	8. Which number is half way between 648 and 652 ?	650
9. What is twelve more than 635 ?	647	9. What is fifteen more than 995 ?	1 010
10. Which is smaller, 5 764 or 5 674 ?	5 674	10. Which is smaller, 3 734 or 3 374 ?	3 374
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 4 : AUTUMN TERM : WEEK 8

Paper 15	Answer	Paper 16	Answer
1. Which is the largest of these numbers: 67, 35, 38, 69, 56 ?	69	1. Which is the smallest of these numbers: 45, 37, 23, 67, 24 ?	23
2. How many sides does a quadrilateral have?	4	2. How many sides does a hexagon have?	6
3. Which shape has seven sides?	<i>heptagon</i>	3. Which shape has eight sides?	<i>octagon</i>
4. Name a shape which has six equal faces.	cube	4. Name a shape which is round like a ball.	<i>sphere</i>
5. What is 583 to the nearest 10?	580	5. What is 678 to the nearest 10?	680
6. A number is bigger than 678 and smaller than 682. What could it be?	679 680 or 681	6. A number is bigger than 998 and smaller than 1 002. What could it be?	999 1 000 or 1 001
7. Which number comes between -12 and -14	-13	7. Which number comes between -23 and -25	-24
8. Write a number between twenty and forty that is divisible by 5 and by 6.	30	8. Write a number between forty and fifty that is divisible by 3 and by 4.	48
9. What number is missing in this sequence: 20, 25, 30, <input type="text"/> , 40, 45	35	9. What number is missing in this sequence: 80, 83, 86, 89, <input type="text"/> , 95	92
10. Write down the two numbers in the three times table that are bigger than 26 and smaller than 32.	27 and 30	10. Write down the two numbers in the four times table bigger than 43 and smaller than 50.	44 and 48
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 4 : AUTUMN TERM : WEEK 9

Paper 17	Answer	Paper 18	Answer
1. What is one quarter of 32 ?	8	1. What is one fifth of 55 ?	11
2. What is one tenth of 90 ?	9	2. What is one tenth of 100 ?	10
3. Is three sixths the same as: One third One quarter One half?	One half	3. Is two eighths the same as: One third One quarter One half?	One quarter
4. Anne has 42 books. She puts them in four equal piles. How many books does she have left over?	2	4. Harry has 48 picture cards. He puts them in five equal piles. How many picture cards does he have left over?	3
5. There are eight cartons of orange juice in a pack. How many cartons are there in five packs?	40	5. One pack holds nine CDs. How many CDs are there in four packs?	36
6. How many pence are there in seven pounds and fifty pence?	750p	6. How many pence are there in four pounds and forty three pence?	443p
7. What is a half of £3.20 ?	£1.60	7. What is a half of £7.00 ?	£3.50
8. Add 36, 50 and 22.	108	8. Add 35, 45 and 55.	135
9. Which of these numbers divide exactly by four: 10, 18, 28, 34, 46 ?	28	9. Which of these numbers divide exactly by three: 15, 18, 23, 34, 50 ?	15 and 18
10. What number do I get if I start with 107 and add 23 ?	130	10. What number do I get if I start with 110 and take away 13 ?	97
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 4 : AUTUMN TERM : WEEK 10

Paper 19	Answer	Paper 20	Answer
1. If $56 + 78 = 134$, what is $134 - 78$?	56	1. If $37 + 99 = 136$, what is $136 - 37$?	99
2. What must I add to 93 to get 120 ?	27	2. What must I add to 85 to get 135 ?	50
3. What are five twelves?	60	3. What are six nines?	54
4. Double 37.	74	4. Double 56.	112
5. Mugs cost £2.50 each. Ken has £12.00. How many mugs can he buy?	4	5. Sticker albums cost £3.50 each. Wendy has £14.00. How many mugs can she buy?	4
6. Add 15 to 20 and take 8 from the answer.	27	6. Add 34 to 40 and take 12 from the answer.	62
7. Calculate $16 + 25 - 12$.	29	7. Calculate $19 + 27 - 10$.	36
8. What is the difference between 50 and 37 ?	13	8. What is the difference between 70 and 39 ?	31
9. What are six twos add four threes?	24	9. What are eight threes add two fives?	34
10. Penny thinks of a number. If she adds 14 to her number, the answer is 29. What number was Penny thinking of?	15	10. Tom thinks of a number. If he takes 23 from his number, the answer is 80. What number was Tom thinking of?	103
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 4 : AUTUMN TERM : WEEK 11

Paper 21	Answer	Paper 22	Answer
1. Which of these numbers is not divisible by 4: 12, 23, 16, 32	23	1. Which of these numbers is not divisible by 3: 34, 36, 39, 42	34
2. How many hundreds are there in 600 ?	6	2. How many hundreds are there in 900 ?	9
3. What is 45 multiplied by zero?	0	3. What is 38 multiplied by zero?	0
4. How many fives are there in 45 ?	9	4. How many fours are there in 28 ?	7
5. What is 19 multiplied by 8 multiplied by 0 ?	0	5. What is 45 multiplied by 0 multiplied by 9 ?	0
6. What is ten times 12 ?	120	6. What is ten times 23 ?	230
7. How many fours are there in 32 ?	8	7. How many fives are there in 40 ?	8
8. Which of these numbers is not divisible by 5: 15, 55, 62, 65, 80	62	8. Which of these numbers is not divisible by 4: 20, 24, 26, 32, 36	26
9. What is 50 shared between 5 ?	10	9. What is 70 shared between 10 ?	7
10. What is a hundred multiplied by 7 ?	700	10. What is a hundred multiplied by 3 ?	300
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 4 : AUTUMN TERM : WEEK 12

Paper 23	Answer	Paper 24	Answer
1. Work out 32×4 by doubling and doubling again.	128	1. Work out 55×4 by doubling and doubling again.	220
2. Multiply by ten and divide by two to work out: 23×5 .	115	2. Multiply by ten and divide by two to work out: 46×5 .	230
3. Double 37.	74	3. Double 59.	118
4. What is 27×11 ?	297	4. What is 36×11 ?	396
5. What do I have to add to 46 to get 100 ?	54	5. What do I have to add to 28 to get 100 ?	72
6. What do I have to take from 100 to get 55 ?	45	6. What do I have to take from 100 to get 9 ?	91
7. How many sides does an isosceles triangle have?	3	7. How many sides does an equilateral triangle have?	3
8. How many sides does a heptagon have?	7	8. How many sides does a hexagon have?	6
9. Name a shape that has four straight sides.	<i>square rectangle quadrilateral etc</i>	9. Which shape has three angles?	<i>triangle</i>
10. How many faces does a tetrahedron have?	4	10. How many faces does a square based pyramid have?	5
Comment:		Comment:	