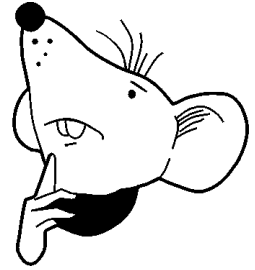
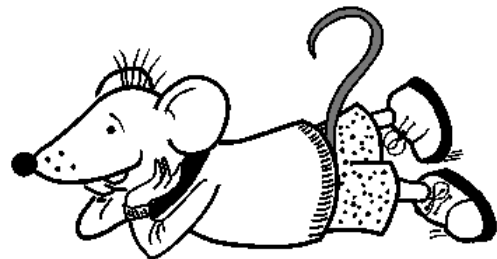
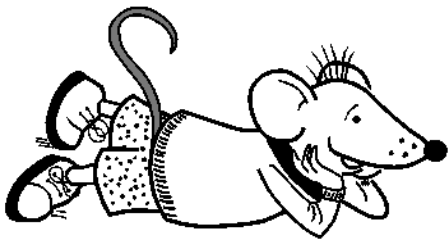


MENTAL ARITHMETIC



YEAR 4

SUMMER TERM



MathSphere

MENTAL ARITHMETIC : YEAR 4 : SUMMER TERM : WEEK 1

Paper 1	Answer	Paper 2	Answer
1. Which is less, 3 hundreds or 32 tens?	3 <i>hundreds</i>	1. Which is less, 7 hundreds or 69 tens?	69 <i>tens</i>
2. What is one metre less than 100 metres?	99 m	2. What is one metre less than 1000 metres?	999 m
3. If I begin with 877 and count back 600, what number will I get?	277	3. If I begin with 472 and count back 200, what number will I get?	272
4. Beginning with 38, how many tens must I add to get a number bigger than 100?	7	4. Beginning with 98, how many tens must I add to get a number bigger than 100?	1
5. What is $5\,000 \div 10$?	500	5. What is $8\,000 \div 10$?	800
6. What is $400 \div 10$?	40	6. What is $500 \div 10$?	50
7. What do I need to multiply 30 by to get 300 ?	10	7. What do I need to multiply 90 by to get 900 ?	10
8. What do I need to multiply 46 by to get 4 600 ?	100	8. What do I need to multiply 73 by to get 7 300 ?	100
9. Double $12\frac{1}{2}$	25	9. Double $45\frac{1}{2}$	91
10. Take 45 from 89.	44	10. Take 67 from 99.	32
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 4 : SUMMER TERM : WEEK 2

Paper 3	Answer	Paper 4	Answer
1. How many 10p coins make £50 ?	500	1. How many 10p coins make £40 ?	400
2. How many 10p coins make £160 ?	1 600	2. How many 10p coins make £230 ?	2 300
3. What is $4\,000 \div 10$?	400	3. What is $6\,000 \div 10$?	600
4. Tins of cat food cost 56p each. Ten tins are put into one pack. How much does one pack cost?	560p or £5.60	4. Light bulbs cost 29p each. Ten bulbs are put into one pack. How much does one pack cost?	290p or £2.90
5. What is the missing number in the sequence: 45, 51, 57, <input type="text"/> , 69,	63	5. What is the missing number in the sequence: 67, 70, 73, <input type="text"/> , 79,	76
6. What is the missing number in the sequence: 76, 80, 84, <input type="text"/> , 92,	88	6. What is the missing number in the sequence: 34, 39, 44, <input type="text"/> , 54,	49
7. John has between 523 and 527 sweets in his jar for the school fete. How many sweets could he have?	524 525 or 526	7. Sarah has between 215 and 218 marbles in her collection. How many marbles could she have?	216 or 217
8. Kelly arranges some cards in seven rows of ten cards. How many cards does she have altogether?	70	8. Fred arranges some MathSphere worksheets in eight rows of ten worksheets. How many sheets does he have altogether?	80
9. Which is the best approximation for 99×6 : 540, 640 or 600 ?	600	9. Which is the best approximation for 49×3 : 150, 120 or 300 ?	150
10. Write a temperature between -8°C and -11°C .	-9°C or -10°C	10. Write a temperature between -12°C and -15°C .	-13°C or -14°C
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 4 : SUMMER TERM : WEEK 3

Paper 5	Answer	Paper 6	Answer
1. Count back three steps of five from 80. What number do you come to?	65	1. Count back four steps of three from 60. What number do you come to?	48
2. Stephanie counts her books in fives. She has three left over. How many books did she have, 33, 34, 35 or 36 ?	33	2. Martin counts his stickers in tens. He has seven left over. How many stickers did he have, 45, 46, 47 or 48 ?	47
3. Which of these fractions is greater than one half: one third, two quarters, three fifths.	three fifths	3. Which of these fractions is smaller than one half: one fifth, two thirds, three quarters.	one fifth
4. What fraction of £1 is 10p ?	$\frac{1}{10}$	4. What fraction of £1 is 20p ?	$\frac{1}{5}$
5. What fraction of one metre is 10 cm ?	$\frac{1}{10}$	5. What fraction of one metre is 30 cm ?	$\frac{3}{10}$
6. What is one quarter of 60 ?	15	6. What is one quarter of 80 ?	20
7. Which is lighter, 4.7 Kg or 5.3 Kg ?	4.7 Kg	7. Which is lighter, 3.8 Kg or 2.9 Kg ?	2.9 Kg
8. What must I add to 1.4 to get 1.7 ?	0.3	8. What must I add to 3.6 to get 3.8 ?	0.2
9. What is £4.67 – 32p ?	£4.35	9. What is £6.82 – 41p ?	£6.41
10. What is 130 cm in metres?	1.30 m	10. What is 450 cm in metres?	4.50 m
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 4 : SUMMER TERM : WEEK 4

Paper 7	Answer	Paper 8	Answer
1. What fraction is 0.5 the same as?	$\frac{1}{2}$ or $\frac{5}{10}$	1. What fraction is 0.8 the same as?	$\frac{8}{10}$
2. What fraction is 0.3 the same as?	$\frac{3}{10}$	2. What fraction is 0.2 the same as?	$\frac{2}{10}$
3. What fraction is 0.25 the same as?	$\frac{1}{4}$	3. What fraction is 0.75 the same as?	$\frac{3}{4}$
4. Peter bought a glove puppet for 65p. He used four silver coins to buy it. Which coins did he use?	3 x20p + 5p or 50p + 3 x 5p	4. Daniella bought a pot for 19p. She used two silver coins and two bronze coins to buy it. Which coins did she use?	2 x2p + 5p + 10p
5. What is the sum of 23 and 45 ?	68	5. What is the sum of 53 and 27 ?	80
6. Double $15\frac{1}{2}$.	31	6. Double $27\frac{1}{2}$.	55
7. Double $24\frac{1}{2}$.	49	7. Double $34\frac{1}{2}$.	69
8. If three medals cost £1, how much would twelve medals cost?	£4	8. If five cakes cost £2, how much would fifteen cakes cost?	£6
9. Write down the double of 400.	800	9. Write down the double of 350.	700
10. If $54 + 60 = 114$, what does $54 + 58$ equal?	112	10. If $89 + 78 = 167$, what does $89 + 77$ equal?	166
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 4 : SUMMER TERM : WEEK 5

Paper 9	Answer	Paper 10	Answer
1. What is $86 + 11$?	97	1. What is $74 + 11$?	85
2. What is $35 + 31$?	66	2. What is $37 + 21$?	58
3. What is $29 + 51$?	80	3. What is $63 + 41$?	104
4. What is $27 + 61$?	88	4. What is $93 + 11$?	104
5. What is $32 + 19$?	51	5. What is $63 + 29$?	92
6. What is $28 + 39$?	67	6. What is $46 + 49$?	95
7. What is $64 + 29$?	93	7. What is $73 + 19$?	92
8. What do I need to add to $4 + 7$ to make 20 ?	9	8. What do I need to add to $3 + 9$ to make 30 ?	18
9. What do I need to add to $11 + 9$ to make 40 ?	20	9. What do I need to add to $17 + 6$ to make 30 ?	7
10. What do I need to add to $17 + 4$ to make 32 ?	11	10. What do I need to add to $23 + 5$ to make 39 ?	11
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 4 : SUMMER TERM : WEEK 6

Paper 11	Answer	Paper 12	Answer
1. What is $45 - 11$?	34	1. What is $27 - 11$?	16
2. What is $37 - 21$?	16	2. What is $95 - 31$?	64
3. What is $98 - 41$?	57	3. What is $57 - 21$?	36
4. What is $76 - 51$?	25	4. What is $99 - 41$?	58
5. What is $44 - 19$?	25	5. What is $23 - 19$?	4
6. What is $68 - 29$?	39	6. What is $55 - 39$?	16
7. What is $37 - 19$?	18	7. What is $88 - 29$?	59
8. What do I need to subtract from $23 + 8$ to make 30 ?	1	8. What do I need to subtract from $9 + 16$ to make 20 ?	5
9. What do I need to subtract from $15 + 26$ to make 30 ?	11	9. What do I need to subtract from $45 + 8$ to make 50 ?	3
10. What do I need to subtract from $22 + 4$ to make 12 ?	14	10. What do I need to subtract from $36 + 4$ to make 40 ?	0
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 4 : SUMMER TERM : WEEK 7

Paper 13	Answer	Paper 14	Answer
1. What must be added to 45 to make 100 ?	55	1. What must be added to 62 to make 100 ?	38
2. What must be added to 56 to make 100?	44	2. What must be added to 78 to make 100?	22
3. What must be added to 456 to make 500 ?	44	3. What must be added to 359 to make 400 ?	41
4. What must be added to 382 to make 400 ?	18	4. What must be added to 777 to make 800 ?	23
5. What must I add to 3 000 to make 7 000 ?	4 000	5. What must I add to 6 000 to make 9 000 ?	3 000
6. What is $45 - 34$?	11	6. What is $63 - 25$?	38
7. What is $67 - 38$?	29	7. What is $94 - 36$?	58
8. How many pence are there in £5.78 ?	578	8. How many pence are there in £6.83 ?	683
9. What is $£4.90 + 20p$?	£5.10	9. What is $£9.90 + 30p$?	£10.20
10. What is $£5.80 - 30p$?	£5.50	10. What is $£7.10 - 20p$?	£6.90
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 4 : SUMMER TERM : WEEK 8

Paper 15	Answer	Paper 16	Answer
1. Is 35 a multiple of 5 ?	yes	1. Is 48 a multiple of 10 ?	no
2. Is 24 a multiple of 4 ?	yes	2. Is 36 a multiple of 2 ?	yes
3. How many boxes would I need to hold 23 cakes, if each box holds five cakes?	5	3. How many cases would I need to hold 32 bottles of squash, if each box holds six bottles?	6
4. How many boxes would I need to hold 46 pencils if each box holds ten pencils?	5	4. How many packets would I need to hold 50 tee shirts if each packet holds five tee shirts?	10
5. What is three fours add two fives?	22	5. What is six fours subtract three threes?	15
6. What is one quarter of 600 ?	150	6. What is one quarter of 120 ?	30
7. Which of these numbers is a multiple of 4: 34, 44, 54 ?	44	7. Which of these numbers is a multiple of 5: 68, 69, 70, 71, 72 ?	70
8. Find $120 \div 10$.	12	8. Find $340 \div 10$.	34
9. Is the answer to $26 + 37$ odd or even?	odd	9. Is the answer to $80 + 26$ odd or even?	even
10. Is the answer to $47 + 66$ odd or even?	odd	10. Is the answer to $47 + 37$ odd or even?	even
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 4 : SUMMER TERM : WEEK 9

Paper 17	Answer	Paper 18	Answer
1. Which operation is missing: $20 \square 4 = 80 ?$	x	1. Which operation is missing: $9 \square 10 = 90 ?$	x
2. Which operation is missing: $42 \square 9 = 33 ?$	–	2. Which operation is missing: $100 \square 10 = 10 ?$	÷
3. How many sides does a regular hexagon have?	6	3. How many sides does a regular octagon have?	8
4. How many sides does an irregular hexagon have?	6	4. How many sides does an irregular octagon have?	8
5. How many right angles does a regular hexagon have?	0	5. How many right angles does a regular octagon have?	0
6. How many lines of symmetry does a rectangle have?	2	6. How many lines of symmetry does an isosceles triangle have?	1
7. How many lines of symmetry does a square have?	4	7. How many lines of symmetry does an equilateral triangle have?	3
8. Which is bigger, four fives or three nines?	three nines	8. Which is bigger, six tens or five elevens?	six tens
9. Which is smaller, three tens or four fives?	four fives	9. Which is smaller, two tens or five fives?	two tens
10. Which is bigger, two tens or four fives?	same	10. Which is bigger, four tens or eight fives?	same
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 4 : SUMMER TERM : WEEK 10

Paper 19	Answer	Paper 20	Answer
1. If these numbers are put in order of size, which number will be in the middle: 34, 56, 23 ?	34	1. If these numbers are put in order of size, which number will be in the middle: 63, 87, 77 ?	77
2. If these numbers are put in order of size, which number will be in the middle: 356, 287, 199 ?	287	2. If these numbers are put in order of size, which number will be in the middle: 462, 469, 470 ?	469
3. If these numbers are put in order of size, which number will be in the middle: 856, 862, 857 ?	857	3. If these numbers are put in order of size, which number will be in the middle: 1 010, 1 021, 1 015 ?	1 015
4. Fred's birthday is on February 12th. What is the date two weeks after his birthday?	Feb 26th	4. Christmas Day is on December 25th. What is the date one week after Christmas Day?	Jan 1st
5. How many days are there in four weeks?	28	5. How many days are there in five weeks?	35
6. How many days are there in September?	30	6. How many days are there in May?	31
7. How many days are there altogether in January and February in a leap year?	60	7. How many days are there altogether in June and July?	61
8. What fraction of a year is three months?	$\frac{1}{4}$	8. What fraction of a year is six months?	$\frac{1}{2}$
9. What is fifteen minutes after 4.55 p.m.?	5.10 p.m.	9. What is twenty minutes after 7.30 p.m.?	7.50 p.m.
10. What is one minute before 6 a.m.?	5.59 a.m.	10. What is one minute before 12 a.m.?	11.59 a.m.
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 4 : SUMMER TERM : WEEK 11

Paper 21	Answer	Paper 22	Answer
1. There are thirty children in a class. One third of them ride a bike to school. How many of them ride to school?	10	1. There are fifty children on a coach. One fifth of them forgot their lunch. How many of them forgot their lunch?	10
2. Two boxes each have ten packets of crisps and one box has seven packets. How many packets are there altogether?	27	2. Two CD racks each have ten CDs and one rack has five CDs. How many CDs are there altogether?	25
3. Divide 18 by three.	6	3. Divide 90 by ten.	9
4. Harry spent £3.90 in a shop. The shopkeeper gave him £6.10 change from a ten pound note. Was this correct?	yes	4. Laura spent £4.80 in a shop. The shopkeeper gave her £1.20 change from a ten pound note. Was this correct?	no
5. Which is bigger, one half of thirty or a third of sixty?	third of sixty	5. Which is bigger, one third of twenty one or a fifth of fifty?	fifth of fifty
6. What fraction of 12 metres is 4 metres ?	$\frac{1}{3}$	6. What fraction of 16 metres is 4 metres ?	$\frac{1}{4}$
7. If 14 cakes are enough for one class of children at a party, how many cakes would be needed for two classes?	28	7. If 30 apples are enough for a picnic with fifteen children, how many apples would be needed for a picnic with thirty children?	60
8. Each side of a regular hexagon is 12 cm long. How long is its perimeter?	72 cm	8. Each side of a regular octagon is 10 cm long. How long is its perimeter?	80 cm
9. Multiply 34 by 100.	3 400	9. Multiply 73 by 100.	7 300
10. How many centimetres are there in 1.6 metres?	160	10. How many centimetres are there in 5.3 metres?	530
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 4 : SUMMER TERM : WEEK 12

Paper 23	Answer	Paper 24	Answer
1. The distance between Juketown and Mabletown is 567 Km. What is this to the nearest 100 Km?	600 Km	1. The distance between Runcastle and Upper Chester is 504 Km. What is this to the nearest 100 Km?	500 Km
2. A rectangle is 7 cm long and 4 cm wide. What is its perimeter?	22 cm	2. A rectangle is 8 cm long and 5 cm wide. What is its perimeter?	26 cm
3. A rectangle is $4\frac{1}{2}$ cm long and 2 cm wide. What is its perimeter?	13 cm	3. A rectangle is $9\frac{1}{2}$ cm long and 5 cm wide. What is its perimeter?	29 cm
4. How many grams are there in 4 Kg and 550 grams?	4 550 g	4. How many grams are there in 6 Kg and 338 grams?	6 338 g
5. John is 137 cm tall. What is this to the nearest ten centimetres?	140 cm	5. Karen is 152 cm tall. What is this to the nearest ten centimetres?	150 cm
6. A boy can run five metres in one second. How long would it take him to run fifty metres?	10 sec	6. A girl can run six metres in one second. How long would it take her to run sixty metres?	10 sec
7. How long is it from 11 a.m. to 3 p.m.?	4 hrs	7. How long is it from 10.30 a.m. to 4.30 p.m.?	6 hrs
8. How many 30° angles make one right angle?	3	8. How many 30° angles make four right angles?	12
9. What are the factors of 10?	1, 2, 5, 10	9. What are the factors of 15?	1. 3. 5. 15
10. What are the factors of 12?	1, 2, 3, 4, 6, 12	10. What are the factors of 18?	1, 2, 3, 6, 9, 18
Comment:		Comment:	