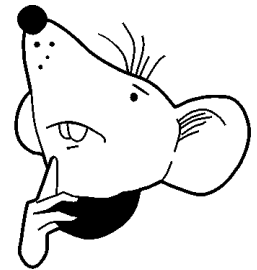
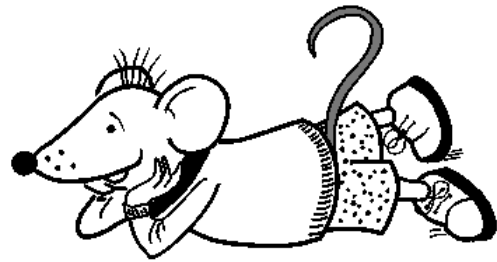
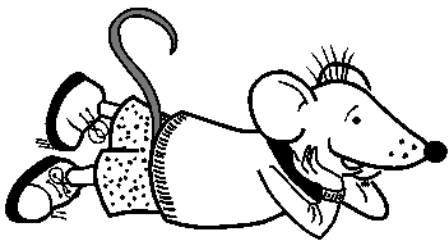


MENTAL ARITHMETIC



YEAR 3

SPRING TERM



MathSphere

MENTAL ARITHMETIC : YEAR 3 : SPRING TERM : WEEK 1

Paper 1	Answer	Paper 2	Answer
1. Round 447 to the nearest whole one hundred.	400	1. Round 555 to the nearest whole one hundred.	600
2. Round 791 to the nearest whole one hundred.	800	2. Round 802 to the nearest whole one hundred.	800
3. 500 is 100 more than which number?	400	3. 600 is 100 more than which number?	500
4. 200 is 100 less than which number?	300	4. 800 is 100 less than which number?	900
5. What number is ten less than 416?	406	5. What number is ten less than 612 ?	602
6. What number is ten less than 505?	495	6. What number is ten less than 606?	596
7. What number is half way between 400 and 500?	450	7. What number is half way between 200 and 300?	250
8. What number is half way between 600 and 700?	650	8. What number is half way between 500 and 600?	550
9. Which is lighter: 3.5 kg or 5.3 kg?	3.5kg	9. Which is lighter: 4.8 kg or 8.4 kg?	4.8kg
10. Which is less: £5.72 or £2.75?	£2.75	10. Which is less: £3.81 or £1.83?	£1.83
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 3 : SPRING TERM : WEEK 2

Paper 3	Answer	Paper 4	Answer
1. 7 plus 147.	154	1. 8 plus 138.	146
2. 9 plus 129.	138	2. 6 plus 1 246	1 252
3. 44 plus 16.	60	3. 55 plus 15.	70
4. 73 plus 17.	90	4. 82 plus 18.	100
5. 300 take away 7.	293	5. 200 take away 5.	195
6. 400 take away 6.	394	6. 500 take away 8.	492
7. 603 subtract 599.	4	7. 702 subtract 699.	3
8. 404 subtract 399.	5	8. 502 subtract 499.	3
9. 300 add 800.	1 100	9. 400 add 700.	1 100
10. 500 add 700.	1 200	10. 600 add 600.	1 200
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 3 : SPRING TERM : WEEK 3

Paper 5	Answer	Paper 6	Answer
1. I think of a number and subtract 10. The answer is 27. What is my number?	37	1. I think of a number and subtract 10. The answer is 29. What is my number?	39
2. I think of a number and add 12. The answer is 14. What is my number?	2	2. I think of a number and add 12. The answer is 16. What is my number?	4
3. A ladybird has 6 legs. How many legs do 5 ladybirds have?	30	3. An tarantula has 8 legs. How many legs do 2 tarantulas have?	16
4. A spider has 8 legs. How many legs do 5 spiders have?	40	4. A bee has 6 legs. How many legs do 10 bees have?	60
5. A car has 4 wheels. How many wheels are there on 5 cars.	20	5. A tricycle has 3 wheels. How many wheels are there on 5 tricycles.	15
6. A hexagon has 6 sides. How sides do 2 hexagons have?	12	6. An octagon has 8 sides. How sides do 10 octagons have?	80
7. A box holds 50 candles. 32 were taken out. How many candles were left in the box?	18	7. A bag holds 50 marbles. 36 were taken out. How many marbles were left in the bag?	14
8. There are 52 cards in a pack. 5 cards were lost. How many were left?	47	8. There are 32 children in a class. 6 children were absent. How many were left?	26
9. How many crayons are there in 2 boxes, each holding 50 crayons?	100	9. How many crayons are there in 3 boxes, each holding 50 crayons?	150
10. A sketchbook has 60 pages. 35 have been drawn on. How many are left?	25	10. A sketchbook has 100 pages. 40 have been drawn on. How many are left?	60
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 3 : SPRING TERM : WEEK 4

Paper 7	Answer	Paper 8	Answer
1. Write 356p as pounds.	£3.56	1. Write 476p as pounds.	£4.76
2. Write 307p as pounds.	£3.07	2. Write 409p as pounds.	£4.09
3. How much money have I got if I have two £1 coins and three 50p pieces?	£3.50	3. How much money have I got if I have four £1 coins and four 50p pieces?	£6
4. How much money have I got if I have two £1 coins and three 20p pieces?	£2.60	4. How much money have I got if I have one £1 coin and four 20p pieces?	£1.80
5. It costs £3 to go to the cinema. How much will it cost for 4 people to go?	£12	5. It costs £4 to go to the theatre. How much will it cost for 5 people to go?	£20
6. It costs £20 to watch a game of football. How much will it cost for 3 people to watch?	£60	6. It costs £20 to watch a game of football. How much will it cost for 4 people to watch?	£80
7. Isabel gets 50p pocket money each week. She saves her pocket money for 4 weeks. How much has she saved?	£2	7. Sophie gets 50p pocket money each week. She saves her pocket money for 6 weeks. How much has she saved?	£3
8. Stella saved 20p a week for 10 weeks. How much has she saved?	£2	8. Rachel saved 10p a week for 20 weeks. How much has she saved?	£2
9. How many 20p pieces in a pound?	5	9. How many 10p pieces in a pound?	10
10. How many 20p pieces in £2?	10	10. How many 10p pieces in £2?	20
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 3 : SPRING TERM : WEEK 5

Paper 9	Answer	Paper 10	Answer
1. Make the largest number you can with the digits 2, 5 and 4.	542	1. Make the largest number you can with the digits 3, 9 and 1.	931
2. Make the largest number you can with the digits 3, 7 and 6.	763	2. Make the largest number you can with the digits 1, 7 and 5.	751
3. What do you have to add to 428 to make 728?	300	3. What do you have to add to 341 to make 541?	200
4. What do you have to add to 719 to make 919?	200	4. What do you have to add to 198 to make 498?	300
5. What number comes next: 3, 8, 13, 18, ?	23	5. What number comes next: 2, 7, 12, 17, ?	22
6. What number comes next: 1, 5, 9, 13, ?	17	6. What number comes next: 3, 7, 11, 15, ?	19
7. What odd number comes after 89?	91	7. What odd number comes after 19?	21
8. What odd number comes after 99?	101	8. What odd number comes after 199?	201
9. Write the next two numbers in this sequence: 266, 366, 466, 566, ? ?	666 766	9. Write the next two numbers in this sequence: 199, 299, 399, 499, ? ?	599 699
10. Write the next two numbers in this sequence: 501, 511, 521, 531, ? ?	541 551	10. Write the next two numbers in this sequence: 147, 157, 167, 177, ? ?	187 197
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 3 : SPRING TERM : WEEK 6

Paper 11	Answer	Paper 12	Answer
1. Make the smallest whole number you can with these digits: 8, 4, 5	458	1. Make the smallest whole number you can with these digits: 9, 1, 1	119
2. Make the smallest whole number you can with these digits: 7, 6, 1	167	2. Make the smallest whole number you can with these digits: 7, 5, 1	157
3. Would a door in a house be about 1m, 2m or 10m high?	2m	3. Would a door in a house be about 1m, 2m or 10m wide?	1m
4. A teaspoon holds 5ml of medicine. How many teaspoons are needed for 15 ml of medicine?	3	4. A teaspoon holds 5ml of medicine. How many teaspoons are needed for 20 ml of medicine?	4
5. How many grams in half a kilogram?	500	5. How many millilitres in a litre?	1 000
6. A TV programme started at 4.50 and finished at 5.20. How long did it last?	30 mins (or half an hour)	6. A TV programme started at 3.40 and finished at 4.10. How long did it last?	30 mins (or half an hour)
7. A film started at 3.00. It lasted one and three quarter hours. What time did it finish?	4.45 (or quarter to five)	7. A film started at 4.00. It lasted two a quarter hours. What time did it finish?	6.15 (or quarter past six)
8. A piece of string, 70 cm long, was cut into two equal pieces. How long was each piece?	35 cm	8. A piece of string, 90 cm long, was cut into two equal pieces. How long was each piece?	45 cm
9. How many sides has a hexagon?	6	9. How many sides has an octagon?	8
10. Find a quarter of 20.	5	10. Find a quarter of 16.	4
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 3 : SPRING TERM : WEEK 7

Paper 13	Answer	Paper 14	Answer
1. Count on 6 from 149. What number do you arrive at?	155	1. Count on 7 from 169. What number do you arrive at?	176
2. Count on 9 from 181. What number do you arrive at?	190	2. Count on 9 from 191. What number do you arrive at?	200
3. Count back 7 from 132. What number do you arrive at?	125	3. Count back 7 from 152. What number do you arrive at?	145
4. Count back 8 from 190. What number do you arrive at?	182	4. Count back 8 from 160. What number do you arrive at?	152
5. Count on 40 in tens from 29. What number do you arrive at?	69	5. Count on 40 in tens from 19. What number do you arrive at?	59
6. Count on 40 in tens from 190. What number do you arrive at?	230	6. Count on 40 in tens from 280. What number do you arrive at?	320
7. Count back 40 in tens from 87. What number do you arrive at?	47	7. Count back 40 in tens from 76. What number do you arrive at?	36
8. Count back 40 in tens from 220. What number do you arrive at?	180	8. Count back 40 in tens from 310. What number do you arrive at?	270
9. Is 76 an odd or even number?	even	9. Is 61 an odd or even number?	odd
10. What is the next odd number after 299?	301	10. What is the next odd number after 499?	501
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 3 : SPRING TERM : WEEK 8

Paper 15	Answer	Paper 16	Answer
1. What is the sum of 30 and 90?	120	1. What is the sum of 40 and 90?	130
2. What is the sum of 35 and 55?	90	2. What is the sum of 75 and 25?	100
3. Total 63 and 17.	80	3. Total 47 and 13.	60
4. Total 89 and 11.	100	4. Total 29 and 71.	100
5. How many are 12, 12 and 13?	37	5. How many are 11, 11 and 12?	34
6. How many are 10, 10 and 7?	27	6. How many are 10, 10 and 4?	24
7. How many less than 39 is 19?	20	7. How many less than 59 is 29?	30
8. How many less than 100 is 49?	51	8. How many less than 100 is 69?	31
9. How many more than 6 is 49?	43	9. How many more than 7 is 29?	22
10. How many more than 7 is 100?	93	10. How many more than 12 is 100?	88
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 3 : SPRING TERM : WEEK 9

Paper 17	Answer	Paper 18	Answer
1. What are three tens?	30	1. What are two tens?	20
2. What are four tens?	40	2. What are five tens?	50
3. 4 times 2.	8	3. 3 times 2.	6
4. 5 multiplied by 2.	10	4. 1 multiplied by 2.	2
5. 4 times 20.	80	5. 3 times 20.	60
6. 5 multiplied by 20.	100	6. 1 multiplied by 20.	20
7. 16 divided by 2.	8	7. 8 divided by 2.	4
8. 20 divided by 5.	4	8. 25 divided by 5.	5
9. 30 divided by 10.	3	9. 40 divided by 10.	4
10. 50 divided by 10.	5	10. 70 divided by 10.	7
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 3 : SPRING TERM : WEEK 10

Paper 19	Answer	Paper 20	Answer
1. What is half of 30?	15	1. What is half of 50?	25
2. What is half of 70?	35	2. What is half of 90?	45
3. A fruit cake is shared equally into 5 slices. Write a fraction to show one slice.	$\frac{1}{5}$	3. A fruit cake is shared equally into 10 slices. Write a fraction to show one slice.	$\frac{1}{10}$
4. A bar of chocolate is shared equally between 4 people. Write a fraction to show how much one person got.	$\frac{1}{4}$	4. An apple tart is shared equally between 5 people. Write a fraction to show how much two people got.	$\frac{2}{5}$
5. What is a quarter of 20?	5	5. What is a quarter of 12?	3
6. What is a quarter of 100?	25	6. What is a quarter of 80?	20
7. What number is half way between one and a half and two.	$1\frac{3}{4}$	7. What number is half way between two and a half and three?	$2\frac{3}{4}$
8. What number is half way between three and a half and four.	$3\frac{3}{4}$	8. What number is half way between five and a half and six.	$5\frac{3}{4}$
9. Which is bigger: a half or a quarter?	<i>a half</i>	9. Which is bigger: a half or a fifth?	<i>a half</i>
10. Which is larger: a quarter or a tenth?	<i>a quarter</i>	10. Which is larger: a half or a tenth?	<i>a half</i>
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 3 : SPRING TERM : WEEK 11

Paper 21	Answer	Paper 22	Answer
1. Add 15, 5, 6 and 1.	27	1. Add 14, 6, 4 and 1.	25
2. Add 10, 20, 5 and 3.	38	2. Add 10, 20, 7 and 1.	38
3. What is £2.50 plus 45p?	£2.95	3. What is £2.50 plus 25p?	£2.75
4. What is £1.50 take away 20p?	£1.30	4. What is £1.50 take away 30p?	£1.20
5. 10 taken from a number is 17. What is the number?	27	5. 10 taken from a number is 19. What is the number?	29
6. 10 added to a number makes 33. What is the number?	23	6. 10 added to a number makes 42. What is the number?	32
7. Double 15.	30	7. Double 25.	50
8. Double 17.	34	8. Double 19.	38
9. What is 1 000 take away 400?	600	9. What is 1 000 take away 100?	900
10. What is 1 000 take away 900?	100	10. What is 1 000 take away 500?	500
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 3 : SPRING TERM : WEEK 12

Paper 23	Answer	Paper 24	Answer
1. What is 45 to the nearest 10? (rounded up)	50	1. What is 65 to the nearest 10? (rounded up)	70
2. What is 135 to the nearest ten? (rounded up)	140	2. What is 145 to the nearest ten? (rounded up)	150
3. What is 432 to the nearest hundred?	400	3. What is 476 to the nearest hundred?	500
4. What is 591 to the nearest hundred?	600	4. What is 529 to the nearest hundred?	500
5. What is twice 34?	68	5. What is twice 41?	82
6. What is twice 55?	110	6. What is twice 45?	90
7. What is half of 300?	150	7. What is half of 500?	250
8. What is half of 700?	350	8. What is half of 900?	450
9. True or false: a cube has six sides.	true	9. True or false: all squares are rectangles.	true
10. True or false: a square has 4 equal sides.	true	10. True or false: a square has 4 right angled corners.	true
Comment:		Comment:	