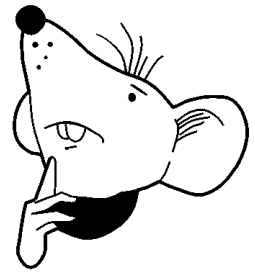
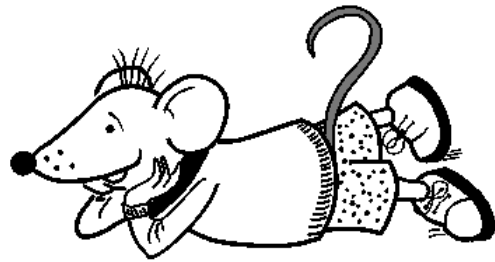
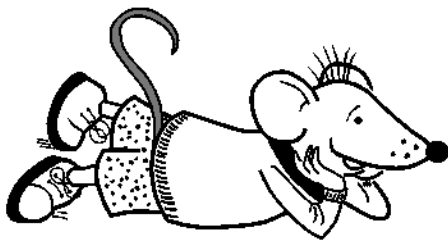


MENTAL ARITHMETIC



YEAR 5

SUMMER TERM



MathSphere

MENTAL ARITHMETIC : YEAR 5 : SUMMER TERM : WEEK 1

Paper 1	Answer	Paper 2	Answer
1. Write in figures: one hundred and twenty six thousand, five hundred and nine.	126 509	1. Write in figures: two hundred and forty five thousand, one hundred and twenty nine.	245 129
2. Write in figures: one million two hundred thousand.	1 200 000	2. Write in figures: one million three hundred thousand and four.	1 300 004
3. What does the digit 7 stand for in the number: 27 456 ?	7 000	3. What does the digit 7 stand for in the number: 73 888 ?	70 000
4. What is the value of the digit 1 in the number: 123 023	100 000	4. What is the value of the digit 1 in the number: 144 244	100 000
5. What is 400 times 10?	4 000	5. What is 600 times 10?	6 000
6. What is 38 multiplied by 100?	3 800	6. What is 45 multiplied by 100?	4 500
7. How many times larger is 5 000 than 50?	100	7. How many times larger is 8 000 than 80?	100
8. How many times larger is 3 000 than 3?	1 000	8. How many times larger is 9 000 than 9?	1 000
9. A boat trip takes two hours, give or take 5 minutes. What is the shortest time the trip could take?	1 hour 55 mins	9. A boat trip takes five hours, give or take 15 minutes. What is the longest time the trip could take?	5 hours 15 mins
10. What number is half way between 32 000 and 33 000?	32 500	10. What number is half way between 45 000 and 46 000?	45 500
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 5 : SUMMER TERM : WEEK 2

Paper 3	Answer	Paper 4	Answer
1. Which of these numbers have the factor 3: 1, 12, 22, 30 ?	12, 30	1. Which of these numbers have the factor 5: 4, 40, 50, 56 ?	40, 50
2. Which of these numbers has the factor 10: 8, 30, 50, 77 ?	30, 50	2. Which of these numbers has the factor 9: 18, 27, 44, 49 ?	18, 27
3. What is 5×5 ?	25	3. What is 3×3 ?	9
4. What is 10×10 ?	100	4. What is 8×8 ?	64
5. What is one tenth of 240 ?	24	5. What is one tenth of 560 ?	56
6. What is one tenth of 350?	35	6. What is one tenth of 200?	20
7. Chris has four times as many books as Mel. If Mel has 6 books, how many does Chris have?	24	7. Zara has three times as many magazines as Jo. If Jo has 20 magazines, how many does Zara have?	60
8. Write $\frac{2}{10}$ as a decimal.	0.2	8. Write $\frac{7}{10}$ as a decimal.	0.7
9. Write $\frac{10}{10}$ as a decimal.	1 or 1.0	9. Write $\frac{1}{10}$ as a decimal.	0.1
10. What does the digit 3 represent in 8.3?	0.3 or 3 tenths	10. What does the digit 8 represent in 2.8?	0.8 or 8 tenths
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 5 : SUMMER TERM : WEEK 3

Paper 5	Answer	Paper 6	Answer
1. Double 35.	70	1. Double 45.	90
2. Double 27.	54	2. Double 19.	38
3. What is half of 90?	45	3. What is half of 30?	15
4. What is half of 50?	25	4. What is half of 70?	35
5. Multiply 36 by 100.	3 600	5. Multiply 28 by 100.	2 800
6. Multiply 36 by 50.	1 800	6. Multiply 28 by 50.	1 400
7. Multiply 26 by 20.	520	7. Multiply 34 by 20.	680
8. Multiply 26 by 21.	546	8. Multiply 34 by 21.	714
9. 30 x 200.	6 000	9. 40 x 300.	12 000
10. 40 x 400.	16 000	10. 50 x 200.	10 000
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 5 : SUMMER TERM : WEEK 4

Paper 7	Answer	Paper 8	Answer
1. How many quarters in a half?	2	1. How many tenths in one fifth?	2
2. How many sixths in one third?	2	2. How many twentieths in one tenth?	2
3. Is one tenth more or less than a half?	less	3. Is one third more or less than a ninth?	more
4. Is four fifths more or less than a half?	more	4. Is three quarters more or less than a half?	more
5. What is one tenth of 70?	7	5. What is one tenth of 40?	4
6. What is one tenth of 120?	12	6. What is one tenth of 110?	11
7. What fraction of a pound is 43 pence?	0.43 or $\frac{43}{100}$	7. What fraction of a pound is 65 pence?	0.65 or $\frac{65}{100}$
8. What fraction of a metre is 33 cm?	0.33 or $\frac{33}{100}$	8. What fraction of a metre is 99 cm?	0.99 or $\frac{99}{100}$
9. At the football club there are 3 boys for every 2 girls. There are 30 boys at the club. How many girls are there?	20	9. At the swimming club there are four girls for every one boy. There are 40 girls at the club. How many boys are there?	10
10. Leslie has half as many sweets as Joni. Lesley has 36 sweets. How many does Joni have?	72	10. Jay has half as many sweets as Neeta. Jay has 29 sweets. How many does Neeta have?	58
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 5 : SUMMER TERM : WEEK 5

Paper 9	Answer	Paper 10	Answer
1. What does the digit 3 represent in 4.23?	3 hundreds	1. What does the digit 4 represent in 5.41?	4 tenths
2. What does the digit 7 represent in 4.227?	7 thousands	2. What does the digit 8 represent in 7.185?	8 hundreds
3. What is the next number in this pattern: 1.2, 1.4, 1.6 1.8 ?	2.0	3. What is the next number in this pattern: 2.6, 2.4, 2.2, 2.0, ?	1.8
4. Round 8.6 to the nearest whole number.	9	4. Round 8.1 to the nearest whole number.	8
5. Round 38.5 to the nearest whole number.	39	5. Round 43.5 to the nearest whole number.	44
6. Write one tenth as a decimal.	0.1	6. Write three tenths as a decimal.	0.3
7. Write 20% as a decimal.	0.2	7. Write 40% as a decimal.	0.4
8. Write 1% as a decimal.	0.01	8. Write 2% as a decimal.	0.02
9. What is 50% of £30 ?	£15	9. What is 50% of £60 ?	£30
10. What is 25% of £20 ?	£5	10. What is 25% of £40 ?	£10
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 5 : SUMMER TERM : WEEK 6

Paper 11	Answer	Paper 12	Answer
1. Add 326 and 34.	360	1. Add 254 and 46.	300
2. Add 723 and 77.	800	2. Add 533 and 67.	600
3. Increase 28 by 62.	90	3. Increase 36 by 51.	87
4. Increase 64 by 46.	110	4. Increase 28 by 38.	66
5. What is double 1.5?	3	5. What is double 2.5?	5
6. What is double 3.5?	7	6. What is double 4.5?	9
7. What is $3 + 5 + 4 + 2$?	14	7. What is $4 + 6 + 3 + 1$?	14
8. What is $6 + 4 + 3 + 7$?	20	8. What is $2 + 8 + 1 + 9$?	20
9. How many altogether are 460 and 370?	830	9. How many altogether are 620 and 230?	850
10. How many altogether are 680 and 190?	870	10. How many altogether are 490 and 150?	640
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 5 : SUMMER TERM : WEEK 7

Paper 13	Answer	Paper 14	Answer
1. What is the name of a triangle with all three sides equal?	<i>Equi-lateral</i>	1. What is the name of a triangle with all three sides different lengths?	<i>Scalene</i>
2. What is the name of an angle which is less than 90° ?	<i>Acute</i>	2. What is the name of an angle which is more than 90° and less than 180° .	<i>Obtuse</i>
3. If one angle on a straight line is 100° , how many degrees is the other angle?	<i>80°</i>	3. If one angle on a straight line is 120° , how many degrees is the other angle?	<i>60°</i>
4. Fran is 176 cm tall. Heidi is 35 cm shorter. How tall is Heidi?	<i>141 cm</i>	4. Mark is 165 cm tall. Alec is 39 cm shorter. How tall is Alec?	<i>126 cm</i>
5. How many grams are there in 4.5 kg?	<i>4 500g</i>	5. How many grams are there in 5.7 kg?	<i>5 700g</i>
6. How many centimetres are there in 8.9 metres?	<i>890 cm</i>	6. How many centimetres are there in 1.4 metres?	<i>140 cm</i>
7. How many millimetres are there in 15 cm?	<i>150 mm</i>	7. How many millimetres are there in 13 cm?	<i>130 mm</i>
8. How long is it from 7.30 am to noon?	<i>$4\frac{1}{2}$ hours</i>	8. How long is it from 9.45 am to noon?	<i>2 hours 15 mins</i>
9. How long is it from 10.15 am to 1.15 pm?	<i>3 hours</i>	9. How long is it from 11.30 am to 3.00 pm?	<i>$3\frac{1}{2}$ hours</i>
10. What is 3.30 pm on the 24 hour clock?	<i>15.30</i>	10. What is 2.20 pm on the 24 hour clock?	<i>14.20</i>
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 5 : SUMMER TERM : WEEK 8

Paper 15	Answer	Paper 16	Answer
1. There is 340 ml of water in a jug. Jim pours out 60 ml. How much is left?	280 ml	1. There is 430 ml of water in a jug. Ali pours out 90 ml. How much is left?	340 ml
2. A tin contains 400g of tomatoes. How much is there in 3 tins?	1 kg 200 g (1 200g)	2. A tin contains 400g of tomatoes. How much is there in 5 tins?	2 kg (2000 g)
3. Kara bought a 1 kg bag of onions. She fried 300g of them to put in hot dogs. How many grams of the onions were left?	700 g	3. Kim bought a 1 kg bag of onions. She fried 200g of them to put in beefburgers. How many grams of the onions were left?	800 g
4. A bag of sugar holds 2.2 kg. Suki buys ten bags. How much sugar has she got?	22 kg	4. A bag of sugar holds 2.2 kg. Suki buys five bags. How much sugar has she got?	11 kg
5. The sun rises at 07.30 and sets at 20.00. How many hours of daylight are there?	12½ hours	5. The sun rises at 06.30 and sets at 21.00. How many hours of daylight are there?	14½ hours
6. Jake ran round the track in 2 minutes 20 seconds. How long would it take him to run round the track 3 times if he kept up the same speed?	7 mins	6. Lee ran round the track in 2 minutes 15 seconds. How long would it take him to run round the track 4 times if he kept up the same speed?	9 mins
7. A rectangle has sides of 5 cm and 2½ cm. What is its perimeter?	15 cm	7. A rectangle has sides of 4 cm and 3½ cm. What is its perimeter?	15 cm
8. What is 6 x 6?	36	8. What is 5 x 5?	25
9. What is 4 x 4?	16	9. What is 9 x 9?	81
10. What is 10 x 10?	100	10. What is 7 x 7?	49
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 5 : SUMMER TERM : WEEK 9

Paper 17	Answer	Paper 18	Answer
1. Add 423 and 48.	471	1. Add 238 and 142.	380
2. Add 153 and 37.	190	2. Add 154 and 66.	220
3. 2.5 plus 2.6.	5.1	3. 3.6 plus 3.5.	7.1
4. What is 148 plus 19?	167	4. What is 138 plus 19?	157
5. What is 167 plus 29?	196	5. What is 163 plus 29?	192
6. Take 19 from 100.	81	6. Take 19 from 132.	113
7. Take 29 from 147.	118	7. Take 29 from 155.	126
8. Add 4, 6, 2 and 5.	17	8. Add 3, 6, 7 and 1.	17
9. Add 13, 11 and 7.	31	9. Add 14, 6 and 9.	29
10. 620 take 440.	180	10. 510 take 220.	290
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 5 : SUMMER TERM : WEEK 10

Paper 19	Answer	Paper 20	Answer
1. What is 400 plus 344?	744	1. What is 300 plus 255?	555
2. What is 300 plus 452?	752	2. What is 600 plus 174?	774
3. 530 take away 150.	380	3. 450 take away 190.	260
4. 430 take away 280.	150	4. 360 take away 180.	180
5. 1 200 take away 300.	900	5. 1 300 take away 500.	800
6. 1 100 take away 600.	500	6. 1 500 take away 700.	800
7. What must be added to 2.7 to make 3?	0.3	7. What must be added to 4.1 to make 5?	0.9
8. What must be added to 3.4 to make 4?	0.6	8. What must be added to 6.7 to make 7?	0.3
9. What must be added to 347 to make 400?	53	9. What must be added to 222 to make 300?	78
10. What must be added to 615 to make 700?	85	10. What must be added to 777 to make 800?	23
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 5 : SUMMER TERM : WEEK 11

Paper 21	Answer	Paper 22	Answer
1. 2.4 plus 4.7.	7.1	1. 3.5 plus 4.8.	8.3
2. 4.9 plus 3.7.	8.6	2. 5.7 plus 2.6.	8.3
3. 5.3 subtract 3.9.	1.4	3. 6.6 subtract 2.9.	3.7
4. 7.1 subtract 1.7.	5.4	4. 7.7 subtract 2.8.	4.9
5. There are six eggs in a box. How many eggs in 8 boxes?	48	5. There are 12 eggs in a box. How many eggs in 5 boxes?	60
6. There are 54 people on a coach. 17 people get off. How many are still on the coach?	37	6. There are 52 people on a coach. 19 people get off. How many are still on the coach?	33
7. Petrol costs 78p a litre. How much would ten litres cost in pounds?	£7.80	7. Petrol costs 79p a litre. How much would ten litres cost in pounds?	£7.90
8. A computer game costs £38. There is a sale with 50% off all prices. What does the game cost in the sale?	£19	8. A video costs £19. There is a sale with 50% off all prices. What does the video cost in the sale?	£9.50
9. What is 25% of £16?	£4	9. What is 25% of £20?	£5
10. How many months in six years?	72	10. How many months in ten years?	120
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 5 : SUMMER TERM : WEEK 12

Paper 23	Answer	Paper 24	Answer
1. What is the next number in this sequence: - 8, - 6, - 4, - 2, ?	0	1. What is the next number in this sequence: - 11, - 9, - 7, - 5, ?	-3
2. What is the next number in this sequence: 6, 4, 2, 0, ?	-2	2. What is the next number in this sequence: 7, 5, 3, 1, ?	-1
3. What is the next number in this sequence: 23, 34, 45, 56, ?	67	3. What is the next number in this sequence: 4, 15, 26, 37 ?	48
4. Count on 19 from 45.	64	4. Count on 19 from 77.	96
5. True or false: the sum of three even numbers is odd.	false	5. True or false: the sum of three even numbers is even.	true
6. True or false: the difference between two odd numbers is even.	true	6. True or false: the difference between two even numbers is even.	true
7. What is five squared?	25	7. What is six squared?	36
8. What is two squared?	4	8. What is seven squared?	49
9. What is 5 x 8?	40	9. What is 4 x 6?	24
10. What is 6 x 7?	42	10. What is 6 x 8?	48
Comment:		Comment:	