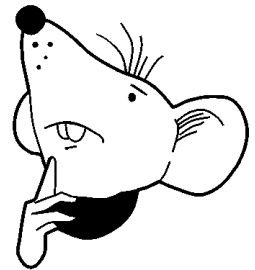
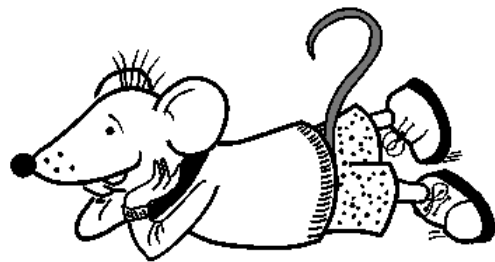
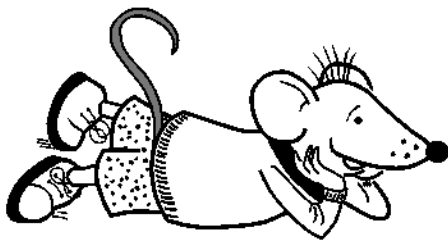


MENTAL ARITHMETIC



YEAR 6

SUMMER TERM



MathSphere

MENTAL ARITHMETIC : YEAR 6 : SUMMER TERM : WEEK 1

Paper 1	Answer	Paper 2	Answer
1. What does the digit 3 represent in 376 012?	300 000	1. What does the digit 6 represent in 67 050?	60 000
2. What does the digit 4 represent in 243 778?	40 000	2. What does the digit 8 represent in 827 666?	800 000
3. When you multiply a number by 100 how many places to the left do the digits move?	2	3. When you multiply a number by 1 000 how many places to the left do the digits move?	3
4. When you divide a number by 10 how many places to the right do the digits move?	1	4. When you divide a number by 100 how many places to the right do the digits move?	2
5. How many times larger is 650 000 than 65?	10 000	5. How many times larger is 450 than 4.5 ?	100
6. How many times smaller is 32 than 3 200?	100	6. How many times smaller is 7.8 than 7 800 ?	1 000
7. How many £10 notes are there in £550 000.	55 000	7. How many £10 notes are there in £430 000.	43 000
8. How many £100 notes in £110 000?	1 100	8. How many £100 notes in £250 000?	2 500
9. What is 16 divided by 10?	1.6	9. What is 18 divided by 10?	1.8
10. What is 23 divided by 10?	2.3	10. What is 88 divided by 10?	8.8
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 6 : SUMMER TERM : WEEK 2

Paper 3	Answer	Paper 4	Answer
1. Double 175.	350	1. Double 399.	798
2. Double 295.	590	2. Double 999.	1998
3. What is half of 498?	249	3. What is half of 298?	149
4. What is half of 99?	49½	4. What is half of 199?	99½
5. 16 times 30.	480	5. 14 times 30.	420
6. 16 times 15.	240	6. 14 times 15.	210
7. 12 times 101.	1 212	7. 13 times 101.	1 313
8. 15 times 101.	1 515	8. 16 times 101.	1 616
9. 15 times 9.	135	9. 12 times 9.	108
10. 15 times 99.	1 485	10. 12 times 99.	1 188
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 6 : SUMMER TERM : WEEK 3

Paper 5	Answer	Paper 6	Answer
1. 3.6 times 10.	36	1. 8.1 times 10.	81
2. 4.21 times 10.	42.1	2. 6.88 times 10.	68.8
3. 7.6 times 100.	760	3. 2.9 times 100.	290
4. 6.55 times 100.	655	4. 3.46 times 100.	346
5. 63 divided by 10.	6.3	5. 87 divided by 10.	8.7
6. 82 divided by 100.	0.82	6. 62 divided by 100.	0.62
7. Double 0.7.	1.4	7. Double 0.6.	1.2
8. Double 0.9.	1.8	8. Double 0.8.	1.6
9. What is half of 0.6?	0.3	9. What is half of 0.8?	0.4
10. What is half of 0.5?	0.25	10. What is half of 0.3?	0.15
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 6 : SUMMER TERM : WEEK 4

Paper 7	Answer	Paper 8	Answer
1. Four fifths is how many tenths?	8 tenths	1. Three fifths is how many tenths?	6 tenths
2. Two thirds is how many ninths?	six ninths	2. One third is how many ninths?	3 ninths
3. How many eighths in a quarter?	2 eighths	3. How many eighths in three quarters?	6 eighths
4. How many tenths in three fifths?	6 tenths	4. How many tenths in four fifths?	8 tenths
5. Write one fifth as a decimal.	0.2	5. Write two fifths as a decimal.	0.4
6. Write three fifths as a decimal.	0.6	6. Write four fifths as a decimal.	0.8
7. What is three tenths of 2 metres, in centimetres.	60 cm	7. What is seven tenths of 2 metres, in centimetres.	140 cm
8. What is four tenths of 3 litres, in millilitres?	1 200 ml	8. What is three tenths of 5 litres, in millilitres?	1 500 ml
9. What does the digit 6 represent in 4.236?	6 thousan dths	9. What does the digit 9 represent in 6.389?	9 thousan dths
10. What does the digit 3 represent in 2.883?	3 thousan dths	10. What does the digit 5 represent in 1.265?	5 thousan dths
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 6 : SUMMER TERM : WEEK 5

Paper 9	Answer	Paper 10	Answer
1. Round 18.6 to the nearest whole number.	19	1. Round 12.8 to the nearest whole number.	13
2. Round 14.2 to the nearest whole number.	14	2. Round 17.4 to the nearest whole number.	17
3. What is 4.16 to the nearest tenth?	4.2	3. What is 5.13 to the nearest tenth?	5.1
4. What is 7.53 to the nearest tenth?	7.5	4. What is 9.46 to the nearest tenth?	9.5
5. Write 0.67 as a fraction.	$\frac{67}{100}$	5. Write 0.78 as a fraction.	$\frac{78}{100}$
6. Write 0.33 as a fraction.	$\frac{33}{100}$	6. Write 0.89 as a fraction.	$\frac{89}{100}$
7. Write 43% as a fraction.	$\frac{43}{100}$	7. Write 27% as a fraction.	$\frac{27}{100}$
8. Write 77% as a fraction.	$\frac{77}{100}$	8. Write 89% as a fraction.	$\frac{89}{100}$
9. Write 0.35 as a percentage of one.	35%	9. Write 0.12 as a percentage of one.	12%
10. Write 0.69 as a percentage of one.	69%	10. Write 0.38 as a percentage of one.	38%
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 6 : SUMMER TERM : WEEK 6

Paper 11	Answer	Paper 12	Answer
1. Double 0.36.	0.72	1. Double 0.48.	0.96
2. Double 0.55.	1.1	2. Double 0.65.	1.3
3. 0.3 times 9.	2.7	3. 0.4 times 9.	3.6
4. 0.7 times 9.	6.3	4. 0.9 times 9.	8.1
5. 47 times 4.	188	5. 53 times 4.	212
6. 56 times 4.	224	6. 61 times 4.	244
7. Find one tenth of 45.	4.5	7. Find one tenth of 73.	7.3
8. Find one tenth of 78.	7.8	8. Find one tenth of 65.	6.5
9. Find one hundredth of 62.	0.62	9. Find one hundredth of 23.	0.23
10. Find one hundredth of 92.	0.92	10. Find one hundredth of 4.	0.04
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 6 : SUMMER TERM : WEEK 7

Paper 13	Answer	Paper 14	Answer
1. How many sides has a rhombus?	4	1. How many sides has a parallelogram?	4
2. How many sides has a hexagon?	6	2. How many sides has a octagon?	8
3. If two angles of a triangle add up to 95° , what will the third angle be?	85°	3. If two angles of a triangle add up to 79° , what will the third angle be?	101°
4. If a triangle has one angle of 90° and one of 40° , what will the third angle be?	50°	4. If a triangle has one angle of 90° and one of 20° , what will the third angle be?	70°
5. Ann travelled 35.5 km by bus and 4.6 km by taxi. How far did she travel altogether?	<i>40.1 km</i>	5. Gemma travelled 56.5 km by bus and 2.5 km by taxi. How far did she travel altogether?	<i>59 km</i>
6. Sam travelled 106 km by train and 35.5 km by bike. How far did he travel?	<i>141.5 km</i>	6. Peter travelled 106 km by train and 8.8 km on the underground. How far did he travel?	<i>114.8 km</i>
7. A full bucket holds 2 litres. A jug holds 250 ml. How many jugs will fill the bucket?	8	7. A full bucket holds 6 litres. A jug holds 500 ml. How many jugs will fill the bucket?	12
8. A kettle holds 2 litres of water. A mug holds 350 ml. How many whole mugs can be filled from the kettle?	5	8. A kettle holds 2 litres of water. A cup holds 240 ml. How many whole cups can be filled from the kettle?	8
9. What is the square of 20?	400	9. What is the square of 30?	900
10. What is the square of 40?	1 600	10. What is the square of 50?	2 500
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 6 : SUMMER TERM : WEEK 8

Paper 15	Answer	Paper 16	Answer
1. How many days in two years?	730	1. How many months in 5 years?	60
2. How many minutes in 4 hours?	240	2. How many minutes in 6 hours?	360
3. Write 3.175 km in metres.	3 175 m	3. Write 1.222 km in metres.	1 222 m
4. Write 4.030 km in metres.	4 030 m	4. Write 22.6km in metres.	22 600 m
5. Write 2.5 litres in millilitres.	2 500 ml	5. Write 1.7 litres in millilitres.	1 700 ml
6. Write 4.6 kg in grams.	4 600 g	6. Write 5.8 kg in grams.	5 800 g
7. Write 3 cm in metres.	0.03m	7. Write 1 cm in metres.	0.01 m
8. Write 7 millimetres in metres.	0.007m	8. Write 2 millimetres in metres.	0.002m
9. Round 3 777 g to the nearest kg.	4 kg	9. Round 5 555 g to the nearest kg.	6 kg
10. Round 1 377 ml to the nearest litre.	1 litre	10. Round 6 540 ml to the nearest litre.	7 litres
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 6 : SUMMER TERM : WEEK 9

Paper 17	Answer	Paper 18	Answer
1. Find the area of a rectangle 20 cm long and 6 cm wide.	120 sq cm	1. Find the area of a rectangle 30 cm long and 7 cm wide.	210 sq cm
2. A room is 8 m long and $11\frac{1}{2}$ m wide. How many square metres of carpet are needed to cover the floor?	92 sq m	2. A room is $7\frac{1}{2}$ m long and 12 m wide. How many square metres of carpet are needed to cover the floor?	90 sq m
3. How many pints in a gallon?	8	3. How many feet in a yard?	3
4. About how many metres are there in a mile?	about 1 600	4. About how many litres are there in a gallon?	about 5
5. 0.06 times 10.	0.6	5. 0.03 times 10.	0.3
6. 0.57 times 100.	57	6. 0.09 times 100.	9
7. The temperature is -6° . It falls a further 8° . What is the new temperature?	-14°	7. The temperature is 6° . It falls 8° . What is the new temperature?	-2°
8. The temperature is 3° . It falls by 7° . What is the new temperature?	-4°	8. The temperature is -3° . It rises by 5° . What is the new temperature?	2°
9. What is the next prime number after 7?	11	9. What is the next prime number after 5?	7
10. What is the next prime number after 13?	17	10. What is the next prime number after 11?	13
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 6 : SUMMER TERM : WEEK 10

Paper 19	Answer	Paper 20	Answer
1. 397 plus 301.	698	1. 298 plus 501.	799
2. 295 plus 401.	696	2. 498 plus 201.	699
3. 7.6 subtract 2.9.	4.7	3. 5.1 subtract 2.9.	2.2
4. 8.2 subtract 1.9.	6.3	4. 4.3 subtract 1.9.	2.4
5. 29 + 30 + 31.	90	5. 39 + 40 + 41.	120
6. 59 + 60 + 61.	180	6. 79 + 80 + 81.	240
7. 5 300 plus 2 900.	8 200	7. 6 500 plus 3 900.	10 400
8. 2 700 plus 3 900.	6 600	8. 5 400 plus 4 900.	10 300
9. 7 200 - 1 400.	5 800	9. 8 100 - 1 900.	6 200
10. 5 100 - 2 700.	2 400	10. 6 100 - 3 200.	2 900
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 6 : SUMMER TERM : WEEK 11

Paper 21	Answer	Paper 22	Answer
1. What must be added to 3.45 to make 4?	0.55	1. What must be added to 2.19 to make 3?	0.81
2. What must be added to 2.77 to make 3?	0.23	2. What must be added to 1.49 to make 2?	0.51
3. 0.07 plus 0.4.	0.47	3. 0.02 plus 0.9.	0.92
4. 0.08 plus 0.1.	0.18	4. 0.03 plus 0.8.	0.83
5. 0.7 - 0.15.	0.55	5. 0.9 - 0.44.	0.46
6. 0.5 - 0.22.	0.28	6. 0.6 - 0.21.	0.39
7. What is the product of 125 and 4?	500	7. What is the product of 150 and 6?	900
8. What is the product of 175 and 2?	350	8. What is the product of 250 and 6?	1 500
9. 0.6 times 30.	18	9. 0.8 times 30.	24
10. 0.7 times 40.	28	10. 0.9 times 40.	36
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 6 : SUMMER TERM : WEEK 12

Paper 23	Answer	Paper 24	Answer
1. Share 60 by 5.	12	1. Share 84 by 7.	12
2. Share 121 by 11.	11	2. Share 144 by 12.	12
3. What is one eighth of 72?	9	3. What is one eighth of 96?	12
4. What is one ninth of 72?	8	4. What is one ninth of 108?	12
5. What are the factors of 27?	1, 3, 9 and 27	5. What are the factors of 20?	1, 2, 4, 5,10,20
6. What are the factors of 17?	1, 17	6. What are the factors of 19?	1, 19
7. Double $36\frac{1}{2}$.	73	7. Double $28\frac{1}{2}$.	57
8. Double $48\frac{1}{2}$.	97	8. Double $46\frac{1}{2}$.	93
9. Double 0.07.	0.14	9. Double 0.08.	0.16
10. Double 0.09.	0.18	10. Double 0.06.	0.12
Comment:		Comment:	