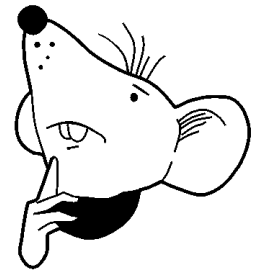
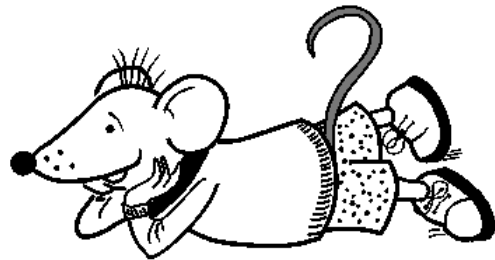
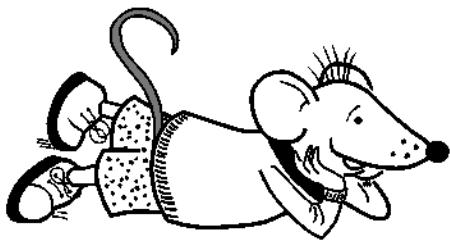


MENTAL ARITHMETIC



YEAR 6

SPRING TERM



MathSphere

MENTAL ARITHMETIC : YEAR 6 : SPRING TERM : WEEK 1

Paper 1	Answer	Paper 2	Answer
1. How many times larger is 76 000 than 76?	1 000	1. How many times larger is 57 000 than 57?	1 000
2. How many times bigger is 460 than 4.6?	100	2. How many times bigger is 830 than 8.3?	100
3. How many £100 notes are in £3 500?	35	3. How many £100 notes are in £6 900?	69
4. How many £100 are in £120 000?	1 200	4. How many £100 are in £550 000?	5 500
5. The temperature in Canada was 5°C. It falls by 9°C. What is the new temperature?	– 4°C	5. The temperature in Austria was 7°C. It falls by 10°C. What is the new temperature?	– 3°C
6. The temperature in Alaska was –10°C. It rises by 6°C. What is the new temperature?	– 4°C	6. The temperature at the North Pole was – 9°C. It rises by 4°C. What is the new temperature?	– 5°C
7. Round 5 656 to the nearest thousand.	6 000	7. Round 4 399 to the nearest thousand.	4 000
8. Round 4 099 to the nearest thousand.	4 000	8. Round 8 900 to the nearest thousand.	9 000
9. 8 divided by 10.	0.8	9. 6 divided by 10.	0.6
10. 5 divided by 10.	0.5	10. 9 divided by 10.	0.9
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 6 : SPRING TERM : WEEK 2

Paper 3	Answer	Paper 4	Answer
1. What are two lots of 36?	72	1. What are two lots of 29?	58
2. What is twice 48?	96	2. What is twice 38?	76
3. Double 84.	168	3. Double 78.	156
4. Double 76.	152	4. Double 66.	132
5. What is half of 130?	65	5. What is half of 170?	85
6. What is half of 250?	125	6. What is half of 350?	175
7. 0.6 times 20.	12	7. 0.9 times 20.	18
8. 0.4 times 20.	8	8. 0.3 times 20.	6
9. Share £81 between 9 children. How much do they get each?	£9	9. Share £108 between 9 children. How much do they get each?	£12
10. Share £121 between 11 children. How much do they each get?	£11	10. Share £144 between 12 children. How much do they each get?	£12
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 6 : SPRING TERM : WEEK 3

Paper 5	Answer	Paper 6	Answer
1. Increase 470 by 280.	750	1. Increase 540 by 190.	730
2. Increase 390 by 160.	550	2. Increase 460 by 380.	840
3. How many altogether are 476 and 324?	800	3. How many altogether are 345 and 555?	900
4. How many altogether are 355 and 245?	600	4. How many altogether are 277 and 123?	400
5. What is 646 take away 545?	101	5. What is 816 take away 705?	111
6. What is 720 take away 315?	405	6. What is 510 take away 456?	54
7. What must I take from 7.6 to leave 3.2?	4.4	7. What must I take from 6.9 to leave 2.7?	4.2
8. What must I take from 5.4 to leave 1.9?	3.5	8. What must I take from 7.1 to leave 2.2?	4.9
9. Add 1.4 and 1.8.	3.2	9. Add 2.3 and 1.9.	4.2
10. Add 2.7 and 3.8.	6.5	10. Add 3.5 and 1.9.	5.4
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 6 : SPRING TERM : WEEK 4

Paper 7	Answer	Paper 8	Answer
1. Which is larger: one third or three tenths?	<i>One third</i>	1. Which is larger: two thirds or nine tenths?	<i>Nine tenths</i>
2. Which is larger one half or two fifths?	<i>One half</i>	2. Which is larger one half or five ninths?	<i>Five ninths</i>
3. How many thirds is the same as four sixths?	<i>Two thirds</i>	3. How many quarters is the same as twelve sixteenths?	<i>Three quarters</i>
4. How many eighths is the same as three quarters?	<i>Six eighths</i>	4. How many tenths is the same as a half?	<i>Five tenths</i>
5. How many halves in $8\frac{1}{2}$?	<i>17 halves</i>	5. How many halves in $3\frac{1}{2}$?	<i>7 halves</i>
6. How many halves in $10\frac{1}{2}$?	<i>21 halves</i>	6. How many halves in $9\frac{1}{2}$?	<i>19 halves</i>
7. What is three tenths of 70?	<i>21</i>	7. What is seven tenths of 50?	<i>35</i>
8. What is four tenths of 60?	<i>24</i>	8. What is nine tenths of 20?	<i>18</i>
9. Take 1.1 from 6.	<i>4.9</i>	9. Take 1.1 from 7.	<i>5.9</i>
10. Take 2.1 for 4.	<i>1.9</i>	10. Take 2.1 for 9.	<i>6.9</i>
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 6 : SPRING TERM : WEEK 5

Paper 9	Answer	Paper 10	Answer
1. 2 000 take way 875.	1 125	1. 2 000 take way 390.	1 610
2. 3 000 subtract 155.	2 845	2. 3 000 subtract 460.	2 540
3. 426 add 555.	981	3. 517 add 499.	1 016
4. 820 plus 340.	1 160	4. 770 plus 280.	1 050
5. Add 2.9 to 3.6.	6.5	5. Add 2.9 to 4.2.	7.1
6. Add 3.9 to 4.5.	8.4	6. Add 3.9 to 6.7.	10.6
7. Subtract 1.9 from 5.3.	3.4	7. Subtract 1.9 from 5.8.	3.9
8. Subtract 2.9 from 6.7.	3.8	8. Subtract 2.9 from 8.3.	5.4
9. What is $80 + 20 + 60$?	160	9. What is $40 + 50 + 60$?	150
10. What is $60 + 30 + 50$?	140	10. What is $60 + 70 + 80$?	210
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 6 : SPRING TERM : WEEK 6

Paper 11	Answer	Paper 12	Answer
1. If ten cans of cola cost £4.80, how much would one cost?	48p	1. If ten cans of cola cost £6.40, how much would one cost?	64p
2. If ten newspapers cost £5.50, how much would one cost?	55p	2. If ten newspapers cost £3.50, how much would one cost?	35p
3. If 100 bars of chocolate cost £35, how much would one cost?	35p	3. If 100 bars of chocolate cost £27, how much would one cost?	27p
4. If 100 packs of sweets cost £50, how much would one cost?	50p	4. If 100 packs of sweets cost £70, how much would one cost?	70p
5. A pair of trainers cost £44.50. They were reduced to half price in a sale. How much are they in the sale?	£22.25	5. A pair of trainers cost £60.88. They were reduced to half price in a sale. How much are they in the sale?	£30.44
6. A CD cost £16.30. it was reduced by 50 % in a sale. What is the sale price?	£8.15	6. A CD cost £21. It was reduced by 50 % in a sale. What is the sale price?	£10.50
7. Take £5.65 from £10.	£4.35	7. Take £4.20 from £10.	£5.80
8. Subtract £3.03 from £10.	£6.97	8. Subtract £6.05 from £10.	£3.95
9. Double £32.23.	£64.46	9. Double £42.21	£84.42
10. Double £45.45.	£90.90	10. Double £13.35.	£26.70
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 6 : SPRING TERM : WEEK 7

Paper 13	Answer	Paper 14	Answer
1. There is 355 ml of milk in a jug. Another 250 ml is added. How much is now in the jug?	605 ml	1. There is 240 ml of milk in a jug. Another 260 ml is added. How much is now in the jug?	500 ml
2. A glass holds 440 ml of water. It is half full. How much water is in the glass?	220 ml	2. A glass holds 680 ml of water. It is half full. How much water is in the glass?	340 ml
3. How many grams of salt need to be added to 1.74 kg to make 2 kg?	260 g	3. How many grams of salt need to be added to 0.45 kg to make 1 kg?	550 g
4. How many ml of lemonade need to be added to 0.75 litres to make 2 litres?	1 250 ml	4. How many ml of lemonade need to be added to 0.95 litres to make 1 litre?	50 ml
5. Which is more 10 kg or 10 lb?	10 kg	5. Which is more 2 kg or 2 lb?	2 kg
6. Which is more 10 miles or 10 km?	10 miles	6. Which is more 5 miles or 12 km?	12 km
7. Write 4.321 km in metres.	4 321 m	7. Write 0.034 km in metres.	34 m
8. Write 650 ml in litres.	0.650 l	8. Write 55 ml in litres.	0.055 l
9. Write 530g in kilograms.	0.530 kg	9. Write 420g in kilograms.	0.420 kg
10. Write 0.206 km in metres.	206 m	10. Write 0.1 km in metres.	100 m
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 6 : SPRING TERM : WEEK 8

Paper 15	Answer	Paper 16	Answer
1. What is 4 760 grams to the nearest kilogram?	5 kg	1. What is 7 099 grams to the nearest kilogram?	7 kg
2. What is 2 099 grams to the nearest kilogram?	2 kg	2. What is 5 555 grams to the nearest kilogram?	6 kg
3. A rectangle is 8cm long and $9\frac{1}{2}$ cm wide. What is its area?	76 sq cm	3. A rectangle is $14\frac{1}{2}$ cm long and 10 cm wide. What is its area?	145 sq cm
4. A rectangle is $15\frac{1}{2}$ cm long and 4 cm wide. What is its area?	62 sq cm	4. A rectangle is $25\frac{1}{2}$ cm long and 4 cm wide. What is its area?	102 sq cm
5. A square has sides 12 cm long. What is its area?	144 sq cm	5. A square has sides 11 cm long. What is its area?	121 sq cm
6. A square has sides 20 cm long. What is its area?	400 sq cm	6. A square has sides 30 cm long. What is its area?	900 sq cm
7. A square has an area of 81 sq cm. What is the length of one side?	9 cm	7. A square has an area of 144 sq cm. What is the length of one side?	12 cm
8. A square has an area of 900 sq cm. What is the length of one side?	30 cm	8. A square has an area of 400 sq cm. What is the length of one side?	20 cm
9. Which number when multiplied by itself gives 100?	10	9. Which number when multiplied by itself gives 1?	1
10. Which number when multiplied by itself gives 121?	11	10. Which number when multiplied by itself gives 1 600?	40
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 6 : SPRING TERM : WEEK 9

Paper 17	Answer	Paper 18	Answer
1. 4 000 - 1 690.	2 310	1. 2 000 - 1 440.	560
2. 3 000 - 2 670.	330	2. 5 000 - 3 790.	1 210
3. 460 + 461.	921	3. 422 + 423.	845
4. 352 + 353.	705	4. 550 + 551.	1 101
5. Add 1.9 to 6.8.	8.7	5. Add 1.9 to 8.1.	10
6. Add 2.9 to 8.3.	11.2	6. Add 2.9 to 8.7.	11.6
7. Take 2.9 from 7.	4.1	7. Take 2.9 from 4.	1.1
8. 1 001 subtract 450.	551	8. 1 001 subtract 330.	671
9. 1 001 subtract 220.	781	9. 1 001 subtract 670.	331
10. What do you need to add to 29 to make 100?	71	10. What do you need to add to 59 to make 100?	41
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 6 : SPRING TERM : WEEK 10

Paper 19	Answer	Paper 20	Answer
1. 5 600 plus 2 500.	8 100	1. 4 300 plus 1 800.	6 100
2. 3 800 plus 1 700.	5 500	2. 2 700 plus 2 300.	5 000
3. 4 700 subtract 1 800.	2 900	3. 5 200 subtract 1 300.	3 900
4. 3 400 subtract 1 900.	1 500	4. 4 400 subtract 1 700.	2 700
5. What must I add to 4.35 to make 5?	0.65	5. What must I add to 2.77 to make 3?	0.23
6. What must I add to 2.79 to make 3?	0.21	6. What must I add to 2.07 to make 3?	0.93
7. 0.2 plus 0.06.	0.26	7. 0.6 plus 0.02.	0.62
8. 0.3 plus 0.03.	0.33	8. 0.7 plus 0.08.	0.78
9. 0.4 - 0.13.	0.27	9. 0.5 - 0.29.	0.21
10. 0.5 - 0.35.	0.15	10. 0.7 - 0.44.	0.26
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 6 : SPRING TERM : WEEK 11

Paper 21	Answer	Paper 22	Answer
1. What is 10% of £5?	50p	1. What is 10% of £7?	70p
2. What is 10% of £15?	£1.50	2. What is 10% of £18?	£1.80
3. What is 50% of £25?	£12.50	3. What is 50% of £31?	£15.50
4. What is 50% of £21?	£10.50	4. What is 50% of £70?	£35
5. What must I add to 0.12 to make 1?	0.88	5. What must I add to 0.04 to make 1?	0.96
6. What must I add to 2.87 to make 10?	7.13	6. What must I add to 2.41 to make 10?	7.59
7. 0.09 plus 0.3.	0.39	7. 0.06 plus 0.8.	0.86
8. 0.04 plus 0.6.	0.64	8. 0.07 plus 0.63.	0.7
9. 0.4 take 0.22.	0.18	9. 0.8 take 0.11.	0.69
10. 0.5 take 0.39.	0.11	10. 0.4 take 0.18.	0.22
Comment:		Comment:	

MENTAL ARITHMETIC : YEAR 6 : SPRING TERM : WEEK 12

Paper 23	Answer	Paper 24	Answer
1. Is 71 divisible by 3?	No	1. Is 81 divisible by 3?	Yes
2. Is 54 divisible by 3?	Yes	2. Is 47 divisible by 3?	No
3. Is 441 divisible by 9?	Yes	3. Is 881 divisible by 9?	No
4. Is 406 divisible by 9?	No	4. Is 432 divisible by 9?	Yes
5. What are the factors of 9?	1, 3, 9	5. What are the factors of 8?	1, 2, 4, 8
6. What are the factors of 10?	1, 2, 5, 10	6. What are the factors of 15?	1, 3, 5, 15
7. What is eleven squared?	121	7. What is twelve squared?	144
8. What is eight squared?	64	8. What is twenty squared?	400
9. Find three tenths of 40.	12	9. Find three tenths of 90.	27
10. Find seven tenths of 60.	42	10. Find seven tenths of 80.	56
Comment:		Comment:	