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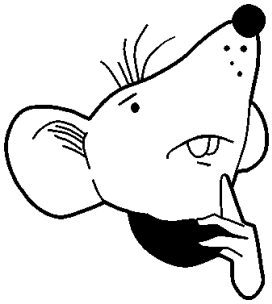

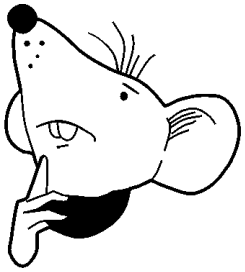

MENTAL ARITHMETIC

YEAR 6

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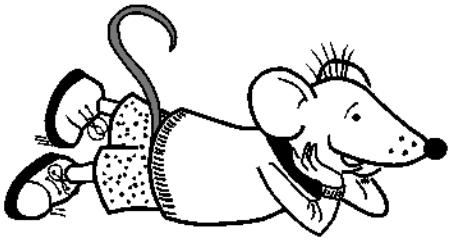

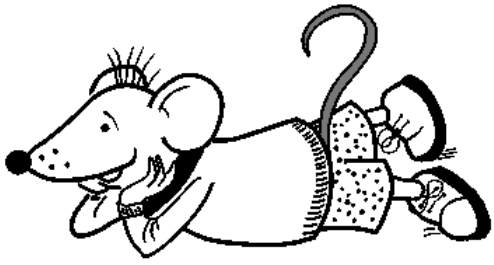

MathSphere

MENTAL ARITHMETIC : YEAR 6 : AUTUMN TERM : WEEK 1

Paper 1	Answer
1. What does the digit 4 represent in 411 375?	*4 hundred thousand*
2. What does the digit 4 represent in 345 890?	*forty thousand*
3. Write in figures: four hundred thousand and fifty five.	*400 055*
4. Write in figures: two hundred and twenty two thousand.	*222 000*
5. How many times larger is 45 000 than 45?	*1 000*
6. How many times larger is 560 000 than 56?	*10 000*
7. How many £10 notes in £1 200?	*120*
8. How many £10 notes in £3 000?	*300*
9. What is 0.6 times 10?	*6*
10. What is 0.4 times 10?	*4*

Comment:

Paper 2	Answer
1. What does the digit 4 represent in 141 116?	*Forty thousand*
2. What does the digit 4 represent in 1 223 489?	*Four hundred*
3. Write in figures: five hundred thousand seven hundred and sixty four.	*500 764*
4. Write in figures: three million.	*3 000 000*
5. How many times larger is 26 000 than 26?	*1 000*
6. How many times larger is 490 000 than 49?	*10 000*
7. How many £10 notes in £1 400?	*140*
8. How many £10 notes in £2 000?	*200*
9. What is 0.5 times 10?	*5*
10. What is 0.1 times 10?	*1*

Comment:

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MENTAL ARITHMETIC : YEAR 6 : AUTUMN TERM : WEEK 2

Paper 3	Answer
1. What are two eighteens?	***36***
2. Double 19.	***38***
3. What are two sixty fives?	***130***
4. Double 35.	***70***
5. 9 times 4.	***36***
6. 9 times 8.	***72***
7. What is the product of 105 and 3?	***315***
8. What is the product of 50 and 4?	***200***
9. 0.8 times 10.	***8***
10. 0.2 times 10	***2***

Comment:

Paper 4	Answer
1. What are two sixteens?	***32***
2. Double 17.	***34***
3. What are two forty fives?	***90***
4. Double 55.	***110***
5. 9 times 6.	***54***
6. 9 times 9.	***81***
7. What is the product of 202 and 4?	***808***
8. What is the product of 60 and 5?	***300***
9. 0.3 times 10.	***3***
10. 0.9 times 10	***9***

Comment:

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MENTAL ARITHMETIC : YEAR 6 : AUTUMN TERM : WEEK 3

Paper 5	Answer
1. Share 72 by 9.	***8***
2. Share 64 by 8.	***8***
3. 18 x 5	***90***
4. 15 x 4	***60***
5. 6 times 99.	***594***
6. 12 times 99.	***1188***
7. 3 divided by 4.	***0.75***
8. 2 divided by 10.	***0.2***
9. £4.41 times 10.	***£44.10***
10. £2.38 times 10.	***£23.80***

Comment:

Paper 6	Answer
1. Share 45 by 9.	***5***
2. Share 40 by 8.	***5***
3. 16 x 5	***80***
4. 19 x 4	***76***
5. 4 times 99.	***396***
6. 11 times 99.	***1089***
7. 6 divided by 4.	***1.5***
8. 7 divided by 10.	***0.7***
9. £8.05 times 10.	***£80.50***
10. £7.02 times 10.	***£70.20***

Comment:

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MENTAL ARITHMETIC : YEAR 6 : AUTUMN TERM : WEEK 4

Paper 7	Answer
1. A half is the same as how many quarters?	***2 quarters***
2. A half is the same as how many tenths?	***5 tenths***
3. How many halves are there in one and a half?	***3 halves***
4. How many halves are there in four and a half?	***9 halves***
5. What is two tenths of 30?	***6***
6. What is three tenths of 40?	***12***
7. If 10 fairground tickets cost £4.50, how much would one cost?	***45p***
8. If 10 cans of drink cost £3.30, how much would one cost?	***33p***
9. What number is half way between one and a quarter and one and three quarters?	***one and a half***
10. How many sixths in one whole one?	***6 sixths***

Comment:

Paper 8	Answer
1. A half is the same as how many sixths?	***3 sixths***
2. A half is the same as how many eighths?	***4 eighths***
3. How many halves are there in two and a half?	***5***
4. How many halves are there in five and a half?	***11***
5. What is two tenths of 20?	***4***
6. What is three tenths of 50?	***15***
7. If 10 fairground tickets cost £6.50, how much would one cost?	***65p***
8. If 10 cans of drink cost £2.80, how much would one cost?	***28p***
9. What number is half way between two and a half and three?	***two and three quarters***
10. How many sevenths in one whole one?	***7 sevenths***

Comment:

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MENTAL ARITHMETIC : YEAR 6 : AUTUMN TERM : WEEK 5

Paper 9	Answer
1. 10 bags of carrots cost £4.60. How much would one bag cost?	***46p***
2. 10 bottles of drink cost £7.00. How much would one bottle cost?	***70p***
3. How many quarters in one and a quarter?	***5 quarters***
4. How many quarters in two and a half?	***10 quarters***
5. What is four tenths of 20?	***8***
6. What is nine tenths of 100?	***90***
7. Write 0.07 as a fraction.	$^{7}/_{100}$
8. Write 0.03 as a fraction.	$^{3}/_{100}$
9. Write 0.13 as a fraction.	$^{13}/_{100}$
10. Write 0.29 as a fraction.	$^{29}/_{100}$

Comment:

Paper 10	Answer
1. 10 boxes of strawberries cost £9.60. How much would one box cost?	***96p***
2. 10 bottles of cola cost £6.50. How much would one bottle cost?	***65p***
3. How many quarters in two and a quarter?	***9 quarters***
4. How many quarters in three and a half?	***14 quarters***
5. What is three tenths of 50?	***15***
6. What is eight tenths of 100?	***80***
7. Write 0.04 as a fraction.	$^{4}/_{100}$
8. Write 0.09 as a fraction.	$^{9}/_{100}$
9. Write 0.35 as a fraction.	$^{35}/_{100}$
10. Write 0.67 as a fraction.	$^{67}/_{100}$

Comment:

MENTAL ARITHMETIC : YEAR 6 : AUTUMN TERM : WEEK 6

Paper 11	Answer
1. If you roll a one to six dice what is the probability of rolling a three?	***1/6***
2. If you roll a one to six dice what is the probability of rolling an odd number?	***1/2***
3. Multiply 3.5 by 100.	***350***
4. Multiply 3.5 by 1 000.	***3 500***
5. How many times larger is 45 000 than 45?	***1 000***
6. How many times larger is 3 600 than 36?	***100***
7. What is 0.7 times 10?	***7***
8. What is 0.7 times 100?	***70***
9. The temperature is -4^o. It falls by 5^o. What is the temperature now?	***-9^o***
10. The temperature is -3^o. It rises by 6^o. What is the temperature now?	***3^o***
Comment:	

Paper 12	Answer
1. If you roll a one to six dice what is the probability of rolling a six?	***1/6***
2. If you roll a one to six dice what is the probability of rolling an even number?	***1/2***
3. Multiply 1.8 by 100.	***180***
4. Multiply 2.4 by 1 000.	***2 400***
5. How many times larger is 33 000 than 33?	***1 000***
6. How many times larger is 4 500 than 45?	***100***
7. What is 0.8 times 10?	***8***
8. What is 0.8 times 100?	***80***
9. The temperature is -2^o. It falls by 6^o. What is the temperature now?	***-8^o***
10. The temperature is -4^o. It rises by 5^o. What is the temperature now?	***1^o***
Comment:	

MENTAL ARITHMETIC : YEAR 6 : AUTUMN TERM : WEEK 7

Paper 13	Answer
1. Adam travelled 35.5 km by train and 500 metres by foot. How far in kilometres did he travel altogether?	***36 km***
2. Alec went 24.6 km by train and then rode his bike a further 800 metres. How far in kilometres did he travel altogether?	***25.4 km***
3. I cut 50 cm off a 3 metre piece of string. How much is left?	***2.5m***
4. Which is more: 5 inches of tape or 5 cm of tape?	***5 inches***
5. One bag of potatoes weighed 5 kg. Another only weighed 4 kg and 450g. How much less did the second bag weigh?	***550g***
6. How many grams of onions must be added to 2.75kg to make 3 kg?	***250g***
7. There is 250 ml of drink in a small bottle of drink. A large bottle holds four times as much. How much does a large bottle hold?	***1000ml or 1 litre***
8. Write 4.2 kilometres in metres.	***4 200m***
9. Write 5.45 km in metres.	***5 450m***
10. About how many pints are there in one litre.	***2 (1¾)***
Comment:	

Paper 14	Answer
1. Jan travelled 42.5 km by train and 400 metres by foot. How far in kilometres did she travel altogether?	***42.9 km***
2. Claire went 15.7 km by train and then rode her bike a further 800 metres. How far in kilometres did she travel altogether?	***16.5 km***
3. I cut 70 cm off a 4 metre piece of string. How much is left?	***3.3 m***
4. Which is more: 6 inches of tape or 6 cm of tape?	***6 inches***
5. One bag of potatoes weighed 10 kg. Another only weighed 9 kg and 600g. How much less did the second bag weigh?	***400g***
6. How many grams of onions must be added to 1.65kg to make 2 kg?	***350 g***
7. There is 300 ml of drink in a small bottle of drink. A large bottle holds five times as much. How much does a large bottle hold?	***1 500 ml or 1.5 l***
8. Write 6.3 kilometres in metres.	***6 300m***
9. Write 2.11 km in metres.	***2 110m***
10. About how many pounds (lb) are there in one kilogram	***2 (2.2)lb***
Comment:	

MENTAL ARITHMETIC : YEAR 6 : AUTUMN TERM : WEEK 8

Paper 15	Answer
1. How many years in a millennium?	***1 000***
2. How many years in a century?	***100***
3. How many months in 2 years?	***24***
4. How many days in a year?	***365***
5. How many days in a fortnight?	***14***
6. How many hours in two days?	***48***
7. How many seconds in 5 minutes?	***300***
8. How many days are there in January.	***31***
9. How many days in March?	***31***
10. If today is Tuesday what day was it the day before yesterday?	***Sunday***

Comment:

Paper 16	Answer
1. How many years in a decade?	***10***
2. How many weeks in a year?	***52***
3. How many days in a leap year?	***366***
4. How many months in 5 years?	***60***
5. How many minutes in three hours?	***180***
6. How many hours in three days?	***72***
7. How many minutes in three and a half hours?	***210***
8. How many days are there in December?	***31***
9. How many days in June?	***30***
10. If it is Friday today, what day will it be the day after tomorrow?	***Sunday***

Comment:

MENTAL ARITHMETIC : YEAR 6 : AUTUMN TERM : WEEK 9

Paper 17	Answer
1. What is the area of a rectangle 6½ cm long and 4 cm wide?	***26 sq cm***
2. What is the area of a rectangle 10 cm long and 4½ cm wide?	***45 sq cm***
3. What is the perimeter of a rectangle 8 cm long and 2½ cm wide?	***21 cm***
4. What is the perimeter of a rectangle 6½ cm long and 5 cm wide?	***23 cm***
5. What is 3 794 g to the nearest whole kilogram?	***4 kg***
6. What is 2 536 g to the nearest whole kilogram?	***3 kg***
7. Write 3 cm in metres.	***0.03 m***
8. Write 8 cm in metres.	***0.08 m***
9. If two angles of a triangle add up to 100^0, what is the third angle?	***80^0***
10. If two angles of a triangle add up to 50^0, what is the third angle?	***130^0***
Comment:	

Paper 18	Answer
1. What is the area of a rectangle 10½ cm long and 8 cm wide?	***84 sq cm***
2. What is the area of a rectangle 10 cm long and 6½ cm wide?	***65 sq cm***
3. What is the perimeter of a rectangle 9 cm long and 3½ cm wide?	***25 cm***
4. What is the perimeter of a rectangle 8 cm long and 1½ cm wide?	***19 cm***
5. What is 2 694 g to the nearest whole kilogram?	***3 kg***
6. What is 1 486 g to the nearest whole kilogram?	***1 kg***
7. Write 1 cm in metres.	***0.01 m***
8. Write 9 cm in metres.	***0.09 m***
9. If two angles of a triangle add up to 45^0, what is the third angle?	***135^0***
10. If two angles of a triangle add up to 165^0, what is the third angle?	***15^0***
Comment:	

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MENTAL ARITHMETIC : YEAR 6 : AUTUMN TERM : WEEK 10

Paper 19	Answer
1. What is 2 000 subtract 1 750?	***250***
2. What is 3 000 subtract 1 999?	***1 001***
3. 5.3 plus 0.9	***6.2***
4. 5.7 plus 0.8	***6.5***
5. 4.7 plus 1.9	***6.6***
6. 8.2 plus 0.9	***9.1***
7. 2.6 subtract 0.9.	***1.7***
8. 1.7 subtract 0.9.	***0.8***
9. What is the difference between 1.1 and 4.5?	***3.4***
10. What is the difference between 1.3 and 2.2?	***0.9***

Comment:

Paper 20	Answer
1. What is 4 000 subtract 2 999?	***1 001***
2. What is 5 000 subtract 3 998?	***1 002***
3. 7.4 plus 0.9	***8.3***
4. 6.6 plus 0.8	***7.4***
5. 4.4 plus 1.9	***6.3***
6. 7.2 plus 0.9	***8.1***
7. 8.4 subtract 0.9.	***7.5***
8. 9.2 subtract 0.9.	***8.3***
9. What is the difference between 2.2 and 6.6?	***4.4***
10. What is the difference between 1.5 and 3.1?	***1.6***

Comment:

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MENTAL ARITHMETIC : YEAR 6 : AUTUMN TERM : WEEK 11

Paper 21	Answer
1. What number comes next in this sequence? 1, 4, 9, 16 ?	***25***
2. What number comes next in this sequence? -5, 10, 25, 40 ?	***55***
3. Is 43 a multiple of 3?	***no***
4. Is 324 a multiple of 9?	***yes***
5. What is 3 squared?	***9***
6. What is 7 squared?	***49***
7. The area of a square is 64 sq cm. What is the length of one side of the square?	***8 cm***
8. The area of a square is 100 sq metres. What is the length of one side of the square?	***10 m***
9. Which of these is a prime number? 9, 12, 13, 24 ?	***13***
10. Which of these numbers is a prime number? 4, 15, 21, 23 ?	***23***
Comment:	

Paper 22	Answer
1. What number comes next in this sequence? 49, 36, 25, 16, ?	***9***
2. What number comes next in this sequence? 20, 15, 10, 5, ?	***0***
3. Is 23 a multiple of 3?	***no***
4. Is 199 a multiple of 9?	***no***
5. What is 5 squared?	***25***
6. What is 8 squared?	***64***
7. The area of a square is 36 sq cm. What is the length of one side of the square?	***6 cm***
8. The area of a square is 81 sq metres. What is the length of one side of the square?	***9 m***
9. Which of these is a prime number? 8, 17, 21, 48?	***17***
10. Which of these numbers is a prime number? 2, 22, 200, 220 ?	***2***
Comment:	

MENTAL ARITHMETIC : YEAR 6 : AUTUMN TERM : WEEK 12

Paper 23	Answer
1. Three fifths is the same as how many tenths?	***6 tenths***
2. One third is the same as how many ninths?	***3 ninths***
3. What is three tenths of 70?	***21***
4. What is four fifths of 100?	***80***
5. How many thirds in one and two thirds?	***5 thirds***
6. How many tenths in three and three tenths?	***33 tenths***
7. 5 600 plus 2 500.	***8 100***
8. 4 700 plus 1 800.	***6 500***
9. 3 100 subtract 1 900.	***1 200***
10. 4 200 subtract 3 300.	***900***
Comment:	

Paper 24	Answer
1. Four fifths is the same as how many tenths?	***8 tenths***
2. Two thirds is the same as how many ninths?	***6 ninths***
3. What is seven tenths of 20?	***14***
4. What is two fifths of 40?	***16***
5. How many thirds in two and two thirds?	***8 thirds***
6. How many tenths in four and six tenths?	***46 tenths***
7. 4 600 plus 1 800.	***6 400***
8. 3 300 plus 1 900.	***5 200***
9. 2 100 subtract 1 600.	***500***
10. 5 500 subtract 4 900.	***600***
Comment:	