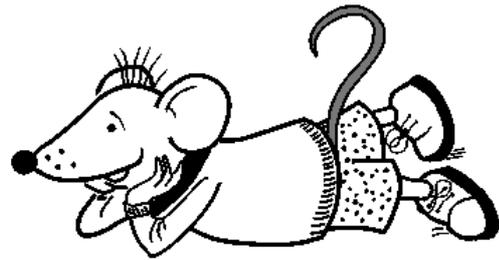
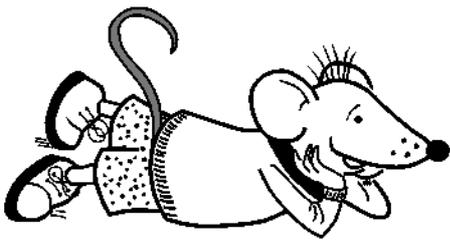


# MENTAL ARITHMETIC

## 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.		<b>126 509</b>	1. Write in figures: two hundred and forty five thousand, one hundred and twenty nine.		<b>245 129</b>
2. Write in figures: one million two hundred thousand.		<b>1 200 000</b>	2. Write in figures: one million three hundred thousand and four.		<b>1 300 004</b>
3. What does the digit 7 stand for in the number: 27 456 ?		<b>7 000</b>	3. What does the digit 7 stand for in the number: 73 888 ?		<b>70 000</b>
4. What is the value of the digit 1 in the number: 123 023		<b>100 000</b>	4. What is the value of the digit 1 in the number: 144 244		<b>100 000</b>
5. What is 400 times 10?		<b>4 000</b>	5. What is 600 times 10?		<b>6 000</b>
6. What is 38 multiplied by 100?		<b>3 800</b>	6. What is 45 multiplied by 100?		<b>4 500</b>
7. How many times larger is 5 000 than 50?		<b>100</b>	7. How many times larger is 8 000 than 80?		<b>100</b>
8. How many times larger is 3 000 than 3?		<b>1 000</b>	8. How many times larger is 9 000 than 9?		<b>1 000</b>
9. A boat trip takes two hours, give or take 5 minutes. What is the shortest time the trip could take?		<b>1 hour 55 mins</b>	9. A boat trip takes five hours, give or take 15 minutes. What is the longest time the trip could take?		<b>5 hours 15 mins</b>
10. What number is half way between 32 000 and 33 000?		<b>32 500</b>	10. What number is half way between 45 000 and 46 000?		<b>45 500</b>
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 ?	<b>12, 30</b>	1. Which of these numbers have the factor 5: 4, 40, 50, 56 ?	<b>40, 50</b>
2. Which of these numbers has the factor 10: 8, 30, 50, 77 ?	<b>30, 50</b>	2. Which of these numbers has the factor 9: 18, 27, 44, 49 ?	<b>18, 27</b>
3. What is $5 \times 5$ ?	<b>25</b>	3. What is $3 \times 3$ ?	<b>9</b>
4. What is $10 \times 10$ ?	<b>100</b>	4. What is $8 \times 8$ ?	<b>64</b>
5. What is one tenth of 240 ?	<b>24</b>	5. What is one tenth of 560 ?	<b>56</b>
6. What is one tenth of 350?	<b>35</b>	6. What is one tenth of 200?	<b>20</b>
7. Chris has four times as many books as Mel. If Mel has 6 books, how many does Chris have?	<b>24</b>	7. Zara has three times as many magazines as Jo. If Jo has 20 magazines, how many does Zara have?	<b>60</b>
8. Write $\frac{2}{10}$ as a decimal.	<b>0.2</b>	8. Write $\frac{7}{10}$ as a decimal.	<b>0.7</b>
9. Write $\frac{10}{10}$ as a decimal.	<b>1 or 1.0</b>	9. Write $\frac{1}{10}$ as a decimal.	<b>0.1</b>
10. What does the digit 3 represent in 8.3?	<b>0.3 or 3 tenths</b>	10. What does the digit 8 represent in 2.8?	<b>0.8 or 8 tenths</b>
Comment:		Comment:	

**MENTAL ARITHMETIC : YEAR 5 : SUMMER TERM : WEEK 3**

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

**MENTAL ARITHMETIC : YEAR 5 : SUMMER TERM : WEEK 4**

Paper 7		Answer	Paper 8		Answer
1. How many quarters in a half?	<b>2</b>		1. How many tenths in one fifth?	<b>2</b>	
2. How many sixths in one third?	<b>2</b>		2. How many twentieths in one tenth?	<b>2</b>	
3. Is one tenth more or less than a half?	<b>less</b>		3. Is one third more or less than a ninth?	<b>more</b>	
4. Is four fifths more or less than a half?	<b>more</b>		4. Is three quarters more or less than a half?	<b>more</b>	
5. What is one tenth of 70?	<b>7</b>		5. What is one tenth of 40?	<b>4</b>	
6. What is one tenth of 120?	<b>12</b>		6. What is one tenth of 110?	<b>11</b>	
7. What fraction of a pound is 43 pence?	<b>0.43</b> <i>or</i> $\frac{43}{100}$		7. What fraction of a pound is 65 pence?	<b>0.65</b> <i>or</i> $\frac{65}{100}$	
8. What fraction of a metre is 33 cm?	<b>0.33</b> <i>or</i> $\frac{33}{100}$		8. What fraction of a metre is 99 cm?	<b>0.99</b> <i>or</i> $\frac{99}{100}$	
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?	<b>20</b>		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?	<b>10</b>	
10. Leslie has half as many sweets as Joni. Lesley has 36 sweets. How many does Joni have?	<b>72</b>		10. Jay has half as many sweets as Neeta. Jay has 29 sweets. How many does Neeta have?	<b>58</b>	
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?	<b>3 hundredths</b>	1. What does the digit 4 represent in 5.41?	<b>4 tenths</b>
2. What does the digit 7 represent in 4.227?	<b>7 thousandths</b>	2. What does the digit 8 represent in 7.185?	<b>8 hundredths</b>
3. What is the next number in this pattern: 1.2, 1.4, 1.6 1.8 ?	<b>2.0</b>	3. What is the next number in this pattern: 2.6, 2.4, 2.2, 2.0, ?	<b>1.8</b>
4. Round 8.6 to the nearest whole number.	<b>9</b>	4. Round 8.1 to the nearest whole number.	<b>8</b>
5. Round 38.5 to the nearest whole number.	<b>39</b>	5. Round 43.5 to the nearest whole number.	<b>44</b>
6. Write one tenth as a decimal.	<b>0.1</b>	6. Write three tenths as a decimal.	<b>0.3</b>
7. Write 20% as a decimal.	<b>0.2</b>	7. Write 40% as a decimal.	<b>0.4</b>
8. Write 1% as a decimal.	<b>0.01</b>	8. Write 2% as a decimal.	<b>0.02</b>
9. What is 50% of £30 ?	<b>£15</b>	9. What is 50% of £60 ?	<b>£30</b>
10. What is 25% of £20 ?	<b>£5</b>	10. What is 25% of £40 ?	<b>£10</b>
Comment:		Comment:	

**MENTAL ARITHMETIC : YEAR 5 : SUMMER TERM : WEEK 6**

Paper 11		Answer	Paper 12		Answer
1. Add 326 and 34.		<b>360</b>	1. Add 254 and 46.		<b>300</b>
2. Add 723 and 77.		<b>800</b>	2. Add 533 and 67.		<b>600</b>
3. Increase 28 by 62.		<b>90</b>	3. Increase 36 by 51.		<b>87</b>
4. Increase 64 by 46.		<b>110</b>	4. Increase 28 by 38.		<b>66</b>
5. What is double 1.5?		<b>3</b>	5. What is double 2.5?		<b>5</b>
6. What is double 3.5?		<b>7</b>	6. What is double 4.5?		<b>9</b>
7. What is $3 + 5 + 4 + 2$ ?		<b>14</b>	7. What is $4 + 6 + 3 + 1$ ?		<b>14</b>
8. What is $6 + 4 + 3 + 7$ ?		<b>20</b>	8. What is $2 + 8 + 1 + 9$ ?		<b>20</b>
9. How many altogether are 460 and 370?		<b>830</b>	9. How many altogether are 620 and 230?		<b>850</b>
10. How many altogether are 680 and 190?		<b>870</b>	10. How many altogether are 490 and 150?		<b>640</b>
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?	<b><i>Equilateral</i></b>	1. What is the name of a triangle with all three sides different lengths?	<b><i>Scalene</i></b>
2. What is the name of an angle which is less than $90^{\circ}$ ?	<b><i>Acute</i></b>	2. What is the name of an angle which is more than $90^{\circ}$ and less than $180^{\circ}$ .	<b><i>Obtuse</i></b>
3. If one angle on a straight line is $100^{\circ}$ , how many degrees is the other angle?	<b><i>80<sup>o</sup></i></b>	3. If one angle on a straight line is $120^{\circ}$ , how many degrees is the other angle?	<b><i>60<sup>o</sup></i></b>
4. Fran is 176 cm tall. Heidi is 35 cm shorter. How tall is Heidi?	<b><i>141 cm</i></b>	4. Mark is 165 cm tall. Alec is 39 cm shorter. How tall is Alec?	<b><i>126 cm</i></b>
5. How many grams are there in 4.5 kg?	<b><i>4 500g</i></b>	5. How many grams are there in 5.7 kg?	<b><i>5 700g</i></b>
6. How many centimetres are there in 8.9 metres?	<b><i>890 cm</i></b>	6. How many centimetres are there in 1.4 metres?	<b><i>140 cm</i></b>
7. How many millimetres are there in 15 cm?	<b><i>150 mm</i></b>	7. How many millimetres are there in 13 cm?	<b><i>130 mm</i></b>
8. How long is it from 7.30 am to noon?	<b><i>4½ hours</i></b>	8. How long is it from 9.45 am to noon?	<b><i>2 hours 15 mins</i></b>
9. How long is it from 10.15 am to 1.15 pm?	<b><i>3 hours</i></b>	9. How long is it from 11.30 am to 3.00 pm?	<b><i>3½ hours</i></b>
10. What is 3.30 pm on the 24 hour clock?	<b><i>15.30</i></b>	10. What is 2.20 pm on the 24 hour clock?	<b><i>14.20</i></b>
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?	<b>280 ml</b>	1. There is 430 ml of water in a jug. Ali pours out 90 ml. How much is left?	<b>340 ml</b>
2. A tin contains 400g of tomatoes. How much is there in 3 tins?	<b>1 kg 200 g (1 200g)</b>	2. A tin contains 400g of tomatoes. How much is there in 5 tins?	<b>2 kg (2000 g)</b>
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?	<b>700 g</b>	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?	<b>800 g</b>
4. A bag of sugar holds 2.2 kg. Suki buys ten bags. How much sugar has she got?	<b>22 kg</b>	4. A bag of sugar holds 2.2 kg. Suki buys five bags. How much sugar has she got?	<b>11 kg</b>
5. The sun rises at 07.30 and sets at 20.00. How many hours of daylight are there?	<b>12½ hours</b>	5. The sun rises at 06.30 and sets at 21.00. How many hours of daylight are there?	<b>14½ hours</b>
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?	<b>7 mins</b>	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?	<b>9 mins</b>
7. A rectangle has sides of 5 cm and 2½ cm. What is its perimeter?	<b>15 cm</b>	7. A rectangle has sides of 4 cm and 3½ cm. What is its perimeter?	<b>15 cm</b>
8. What is 6 x 6?	<b>36</b>	8. What is 5 x 5?	<b>25</b>
9. What is 4 x 4?	<b>16</b>	9. What is 9 x 9?	<b>81</b>
10. What is 10 x 10?	<b>100</b>	10. What is 7 x 7?	<b>49</b>
Comment:		Comment:	

**MENTAL ARITHMETIC : YEAR 5 : SUMMER TERM : WEEK 9**

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

**MENTAL ARITHMETIC : YEAR 5 : SUMMER TERM : WEEK 10**

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

**MENTAL ARITHMETIC : YEAR 5 : SUMMER TERM : WEEK 11**

Paper 21	Answer	Paper 22	Answer
1. 2.4 plus 4.7.	<b>7.1</b>	1. 3.5 plus 4.8.	<b>8.3</b>
2. 4.9 plus 3.7.	<b>8.6</b>	2. 5.7 plus 2.6.	<b>8.3</b>
3. 5.3 subtract 3.9.	<b>1.4</b>	3. 6.6 subtract 2.9.	<b>3.7</b>
4. 7.1 subtract 1.7.	<b>5.4</b>	4. 7.7 subtract 2.8.	<b>4.9</b>
5. There are six eggs in a box. How many eggs in 8 boxes?	<b>48</b>	5. There are 12 eggs in a box. How many eggs in 5 boxes?	<b>60</b>
6. There are 54 people on a coach. 17 people get off. How many are still on the coach?	<b>37</b>	6. There are 52 people on a coach. 19 people get off. How many are still on the coach?	<b>33</b>
7. Petrol costs 78p a litre. How much would ten litres cost in pounds?	<b>£7.80</b>	7. Petrol costs 79p a litre. How much would ten litres cost in pounds?	<b>£7.90</b>
8. A computer game costs £38. There is a sale with 50% off all prices. What does the game cost in the sale?	<b>£19</b>	8. A video costs £19. There is a sale with 50% off all prices. What does the video cost in the sale?	<b>£9.50</b>
9. What is 25% of £16?	<b>£4</b>	9. What is 25% of £20?	<b>£5</b>
10. How many months in six years?	<b>72</b>	10. How many months in ten years?	<b>120</b>
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, ?	<b>0</b>	1. What is the next number in this sequence: - 11, - 9, - 7, - 5, ?	<b>-3</b>
2. What is the next number in this sequence: 6, 4, 2, 0, ?	<b>-2</b>	2. What is the next number in this sequence: 7, 5, 3, 1, ?	<b>-1</b>
3. What is the next number in this sequence: 23, 34, 45, 56, ?	<b>67</b>	3. What is the next number in this sequence: 4, 15, 26, 37 ?	<b>48</b>
4. Count on 19 from 45.	<b>64</b>	4. Count on 19 from 77.	<b>96</b>
5. True or false: the sum of three even numbers is odd.	<b>false</b>	5. True or false: the sum of three even numbers is even.	<b>true</b>
6. True or false: the difference between two odd numbers is even.	<b>true</b>	6. True or false: the difference between two even numbers is even.	<b>true</b>
7. What is five squared?	<b>25</b>	7. What is six squared?	<b>36</b>
8. What is two squared?	<b>4</b>	8. What is seven squared?	<b>49</b>
9. What is 5 x 8?	<b>40</b>	9. What is 4 x 6?	<b>24</b>
10. What is 6 x 7?	<b>42</b>	10. What is 6 x 8?	<b>48</b>
Comment:		Comment:	