

**Year 3**  
**Mental Arithmetic**  
**Test Questions**



## Equipment Required

- Printed question and answer sheet for the reader
- Printed blank answer page for child
- Stopwatch or timer
- Pencil

No other equipment is required to complete this test. No rulers, protractors or calculators should be used.

## How to use the tests

Read out the text in red to the child. This tells them how long they have for each question.

Once you are ready to start, read out each question twice and then start the time (5 secs for the first 10 questions and 10 secs for the next 5 questions).

Although this is a mental maths test and the children should be doing the majority of working out in their heads, it is sometimes useful to write jottings down to help work out the answer. This is more than acceptable and good practice in case they need to go back (if they have spare time on one question) to finish working it out.

At the end of the test, mark the questions together and discuss how the child worked them out. Go through any they may have got wrong and work them out together.

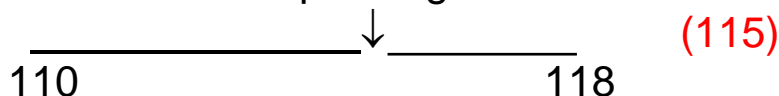
## Test 5

*I will read every question twice. In this first set you will have 5 seconds to work out the answer and record it on your answer sheet.*

1. What whole number comes immediately after one hundred and seventeen? (118)
2. A length of ribbon is between 20cm and 30cm long. How long might the length of ribbon be? (21-29cm inc.)
3. On your sheet is a shape. Ring the correct name of that shape.  
(triangle, rectangle, pentagon, circle, square, hexagon)
4. Round 45 to the nearest 10. (50)
5. Write 3 numbers that add up to 20. (various answers)
6. What is 80 add 81? (161)
7. Multiply 5 by 8. (40)
8. Write 465 pence in pounds and pence. (£4.65)
9. Write the odd number immediately before 121. (120)
10. Write the next number in the sequence 13, 15, 17, 19, ? (21)

*For the next set of questions you will have 10 seconds to work out the answer and record it on your answer sheet.*

11. On your sheet there is a number scale. Estimate the number the arrow is pointing to. (115)



12. In year 3 there are 58 children. 29 of them are girls. How many of them are boys? (29)
13. Mary was 9 years old in 1993. In what year was she born? (1984)
14. What is the change from 20p for 2 chew bars at 6p each? (8p)
15. What shape is a 6-sided dice? (cube)

**YEAR 3**


**Mental Arithmetic Test 5**

**Name:**

**Date:**

|          |  |
|----------|--|
| <b>1</b> |  |
|----------|--|

|          |  |           |                            |
|----------|--|-----------|----------------------------|
| <b>2</b> |  | <b>cm</b> | <b>20cm</b><br><b>30cm</b> |
|----------|--|-----------|----------------------------|

|          |   |   |   |
|----------|---|---|---|
| <b>3</b> | <b>triangle</b><br><b>pentagon</b><br><b>square</b> | <b>rectangle</b><br><b>circle</b><br><b>hexagon</b> |  |
|----------|---|---|---|

|          |  |
|----------|--|
| <b>4</b> |  |
|----------|--|

|          |  |           |
|----------|--|-----------|
| <b>5</b> |  | <b>20</b> |
|----------|--|-----------|

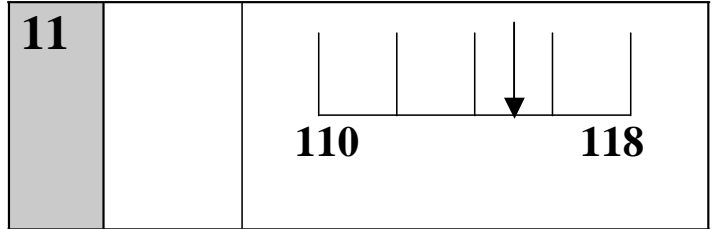
|          |  |
|----------|--|
| <b>6</b> |  |
|----------|--|

|          |  |  |
|----------|--|--|
| <b>7</b> |  |  |
|----------|--|--|

|          |          |             |
|----------|----------|-------------|
| <b>8</b> | <b>£</b> | <b>465p</b> |
|----------|----------|-------------|

|          |  |
|----------|--|
| <b>9</b> |  |
|----------|--|

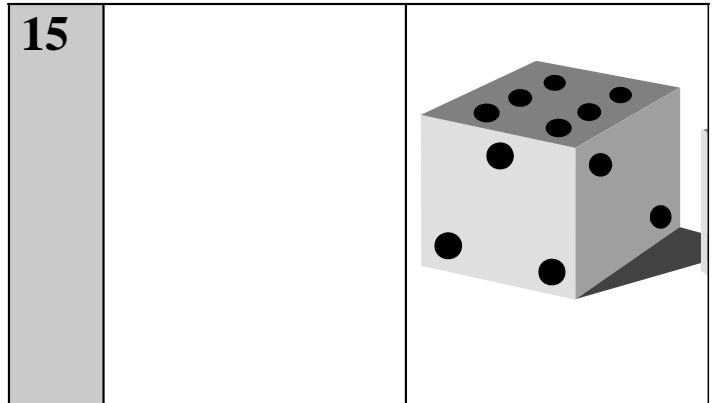
|           |                    |                      |
|-----------|--------------------|----------------------|
| <b>10</b> | <b>13 15 17 19</b> | <input type="text"/> |
|-----------|--------------------|----------------------|



|           |             |                                       |
|-----------|-------------|---------------------------------------|
| <b>12</b> | <b>boys</b> | <b>58 children</b><br><b>29 girls</b> |
|-----------|-------------|---------------------------------------|

|           |  |                            |
|-----------|--|----------------------------|
| <b>13</b> |  | <b>9yrs</b><br><b>1993</b> |
|-----------|--|----------------------------|

|           |  |                                |
|-----------|--|--------------------------------|
| <b>14</b> |  | <b>20p</b><br><b>2 6p bars</b> |
|-----------|--|--------------------------------|



## Test 6

I will read every question twice. In this first set you will have 5 seconds to work out the answer and record it on your answer sheet.

1. What whole number comes immediately after two hundred and nineteen? (220)
2. What number is halfway between 40 and 50? (45)
3. Round 74 to the nearest 10. (70)
4. Complete this number sentence:  $123 = 100 + ? + 3$  (20)
5. What shape has 4 right angles and opposite sides equal? (square or rectangle)
6. What is 40 plus 39? (79)
7. What number multiplied by itself makes 25? (5)
8. Write the next number in this sequence 68, 66, 64, ? (62)
9. I think of a number then halve it. The answer is 9. What was my number? (18)
10. Write in £s and pence the total of ten 10p coins and 5 1p coins. (£1.05)

For the next set of questions you will have 10 seconds to work out the answer and record it on your answer sheet.

11. How many 5p coins are needed to make £5? (100)
12. What is one quarter of 20p? (5p)
13. What speed is shown on the speedometer on your sheet? (90 km/h)
14. How many seconds are there in half a minute? (30)
15. Circle the two numbers which have a sum of 20?  
14, 5, 16, 6 (14,6)

**YEAR 3**

**Mental Arithmetic Test 6**

**Name:**

**Date:**

|          |  |
|----------|--|
| <b>1</b> |  |
|----------|--|

|          |  |
|----------|--|
| <b>2</b> |  |
|----------|--|

|          |  |
|----------|--|
| <b>3</b> |  |
|----------|--|

|          |                           |
|----------|---------------------------|
| <b>4</b> | $123 = 100 + \square + 3$ |
|----------|---------------------------|

|          |  |
|----------|--|
| <b>5</b> |  |
|----------|--|

|          |  |           |           |
|----------|--|-----------|-----------|
| <b>6</b> |  | <b>40</b> | <b>39</b> |
|----------|--|-----------|-----------|

|          |  |           |
|----------|--|-----------|
| <b>7</b> |  | <b>25</b> |
|----------|--|-----------|

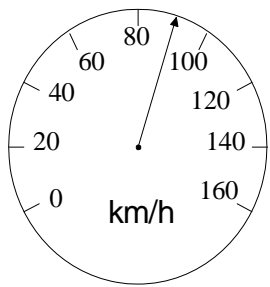
|          |                 |                      |                      |
|----------|-----------------|----------------------|----------------------|
| <b>8</b> | <b>68 66 64</b> | <input type="text"/> | <input type="text"/> |
|----------|-----------------|----------------------|----------------------|

|          |  |          |
|----------|--|----------|
| <b>9</b> |  | <b>9</b> |
|----------|--|----------|

|           |          |                                  |
|-----------|----------|----------------------------------|
| <b>10</b> | <b>£</b> | <b>ten 10p</b><br><b>five 1p</b> |
|-----------|----------|----------------------------------|

|           |  |              |                        |
|-----------|--|--------------|------------------------|
| <b>11</b> |  | <b>coins</b> | <b>5p</b><br><b>£5</b> |
|-----------|--|--------------|------------------------|

|           |  |          |            |
|-----------|--|----------|------------|
| <b>12</b> |  | <b>p</b> | <b>20p</b> |
|-----------|--|----------|------------|

|           |             |  |
|-----------|-------------|--|
| <b>13</b> | <b>Km/h</b> |  |
|-----------|-------------|--|

|           |  |                |                |
|-----------|--|----------------|----------------|
| <b>14</b> |  | <b>seconds</b> | <b>1/2 min</b> |
|-----------|--|----------------|----------------|

|           |                  |           |
|-----------|------------------|-----------|
| <b>15</b> | <b>14 5 16 6</b> | <b>20</b> |
|-----------|------------------|-----------|

## Test 7

I will read every question twice. In this first set you will have 5 seconds to work out the answer and record it on your answer sheet.

1. What number is 10 less than one hundred and seventy eight? (168)
2. Write the missing number  $364 = ? + 60 + 4$  (300)
3. Estimate the whole number shown by the arrow  
 $\frac{\text{-----}}{50} \quad ? \quad \frac{\text{-----}}{60}$  (56 or 57)
4. Round 67 to the nearest 10. (70)
5. How many sides does a quadrilateral have? (4)
6. What is the total of 55 and 16? (71)
7. Sue had 10 stamps. Tim has 3 stamps for every one of Sue's. How many stamps has Tim? (30)
8. How many grams is  $\frac{1}{2}$  kg? (500g)
9. How many grams equal 3.5 kg? (3500g)
10. Tim buys a comic for 50 pence. He pays with a £5 note. How much change should he get? (£4.50)

For the next set of questions you will have 10 seconds to work out the answer and record it on your answer sheet.

11. On your sheet are some shapes. Put a tick on the shape that has 3 lines of symmetry. (the triangle)
12. A Magazine costs £1.45. What do two magazines cost? (£2.90)
13. What is the next number in the sequence?  
42, 36, 30, 24, ? (18)
14. If today is Friday, what day will it be in 8 days time?  
(Saturday)
15. There were 25 people on a train. 10 got off and 7 got on. How many people were then on the train? (22)

**YEAR 3**

**Mental Arithmetic Test 7**

**Name:**

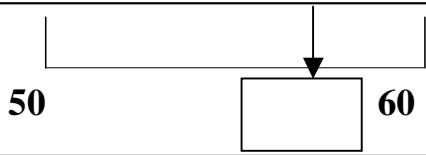
**Date:**

**1**

**2**

$$364 = \square + 60 + 4$$

**3**



**4**

**5**

**6**

|                      |           |           |
|----------------------|-----------|-----------|
| <input type="text"/> | <b>55</b> | <b>16</b> |
|----------------------|-----------|-----------|

**7**

|                      |                          |
|----------------------|--------------------------|
| <input type="text"/> | <b>Sue has 10 stamps</b> |
|----------------------|--------------------------|

**8**

|                      |          |              |
|----------------------|----------|--------------|
| <input type="text"/> | <b>g</b> | <b>1/2kg</b> |
|----------------------|----------|--------------|

**9**

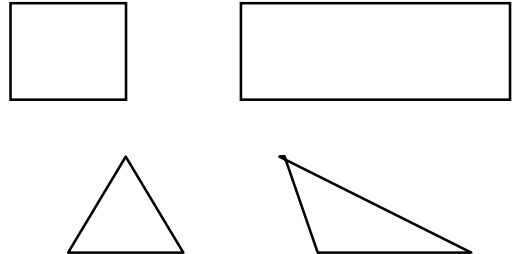
|                      |          |              |
|----------------------|----------|--------------|
| <input type="text"/> | <b>g</b> | <b>3.5kg</b> |
|----------------------|----------|--------------|

**10**

**£**

|                      |                  |           |
|----------------------|------------------|-----------|
| <input type="text"/> | <b>50p comic</b> | <b>£5</b> |
|----------------------|------------------|-----------|

**11**



**12**

|                      |              |
|----------------------|--------------|
| <input type="text"/> | <b>£1.45</b> |
|----------------------|--------------|

**13**

|           |           |           |           |                      |
|-----------|-----------|-----------|-----------|----------------------|
| <b>42</b> | <b>36</b> | <b>30</b> | <b>24</b> | <input type="text"/> |
|-----------|-----------|-----------|-----------|----------------------|

**14**

|                      |               |               |
|----------------------|---------------|---------------|
| <input type="text"/> | <b>Friday</b> | <b>8 days</b> |
|----------------------|---------------|---------------|

**15**

|                      |                  |                   |                 |
|----------------------|------------------|-------------------|-----------------|
| <input type="text"/> | <b>25 people</b> | <b>10 got off</b> | <b>7 got on</b> |
|----------------------|------------------|-------------------|-----------------|



## Test 8

I will read every question twice. In this first set you will have 5 seconds to work out the answer and record it on your answer sheet.

1. Write the number that is 100 more than two hundred and thirty two. (332)
2. Write in figures the number six hundred and seven (607)
3. Round 88 to the nearest 10. (90)
4. Write the missing number in the empty box  $578 = 500 + 70 +$  (8)
5. How many lines of symmetry has a square? (4)
6. What is the difference between 70 and 11? (59)
7. What is the total of 543 and 11? (554)
8. How many tens in sixty? (6)
9. How many days are in December? (31)
10. It costs 75p for a child to swim. How much will it cost for 2 children? (£1.50 or 150p)

For the next set of questions you will have 10 seconds to work out the answer and record it on your answer sheet.

11. Tick the shape that has no lines of symmetry. (the parallelogram)
12. On your sheet is a digital clock. What time should it show in 1 ½ hours time? 

|        |
|--------|
| 8 : 35 |
|--------|

|         |
|---------|
| 10 : 05 |
|---------|
13. Put a ring round the only number that is both a multiple of 5 and a multiple of 10.  
35, 110, 165, 51, 103 (110)
14. Write the number missing from this sequence.  
?, 30, 27, 24 (33)
15. 12 points were scored in a game of rugby. Sean scored 3 of them. What fraction of the total did he score? Put a ring round the correct fraction. (¼)

**YEAR 3**

**Mental Arithmetic Test 8**

**Name:**

**Date:**

**1**

**2**

**3**

**4**  $578 = 500 + 70 +$

**5**

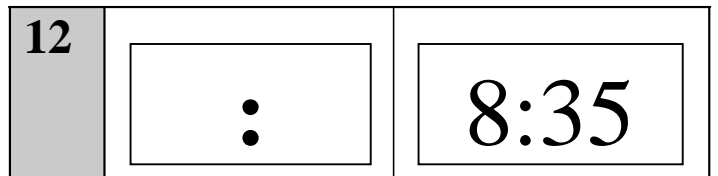
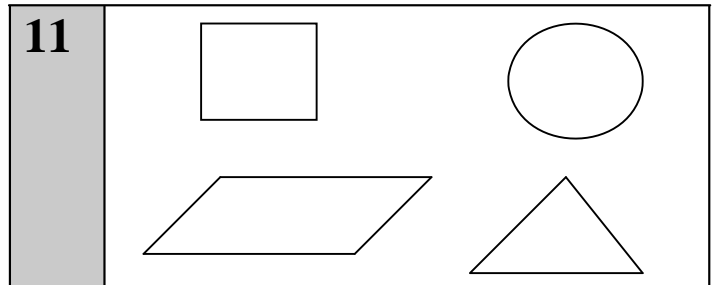
**6**  **70** **11**

**543** **11**

**8**

**9**  **December**

**10**  **75p**



**13**

**35 110 165 51 103**

**14**

**30 27 24**

**15**

$\frac{1}{4}$        $\frac{1}{2}$

$\frac{3}{4}$

**12 points, Sean scored 3.**

## Test 9

I will read every question twice. In this first set you will have 5 seconds to work out the answer and record it on your answer sheet.

1. In the number 36 what is the 3 digit worth? (30)
2. Write a number in the box so that the 3 numbers are in order 395      405      (396 to 404 inc.)
3. Ring the correct name for a can e.g. can of coke:  
Pyramid   Cube   **Cylinder**   Hexagon      (cylinder)
4. What is the sum of 63 and 29? (92)
5. Stickers are 8p each. How much will 5 cost? (40p)
6. Snack biscuits are in packs of 5. I have 7 packs. How many biscuits altogether? (35)
7. How many tenths are the same as  $\frac{1}{2}$ ? (5 tenths)
8. How many grams in  $\frac{1}{2}$  kg? (500g)
9. Write the next number in this sequence:  
17, 21, 25, ? (29)
10. How many seconds are there in one minute? (60)

For the next set of questions you will have 10 seconds to work out the answer and record it on your answer sheet.

11. Put a ring round the only number which is divisible both by 5 and 10.  
25, **40**, 52, 75, 105, (40)
12. Write the number missing from this sequence.  
6, 11, **?**, 21, 26 (16)
13. What is the solid shape called? (cylinder)
14. John cut 2 ribbons which were each 33cm long from a 1m piece of ribbon. How much is left? (34cm)
15. Put a ring round the number of grams that are the same as 2.5 kg.  
25g      205g      250g      **2500g**      (2500g)

**YEAR 3**

**Mental Arithmetic Test 9**

**Name:**

**Date:**

**1**  **36**

**2** **395**  **405**

**3** **Pyramid** **cube**  
**Cylinder** **hexagon**

**4**  **63 29**

**5**  **8p**

**6**  **Packs of 5  
7 packs**

**7**  **1/2**


**8**  **g** **1/2kg**

**9** **17 21 25**

**10**

**11** **25 40 52 75 105**

**12** **6 11**  **21 26**

**13**  

**14**  **cm** **1m  
33cm**

**15** **25g 205g** **2.5kg**  
**250g 2500g**

