Year 5
Mental Arithmetic Tests

5

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.

Year Five Mental Arithmetic Test 7

5 second response

1. Write the number thirty three thousand four hundred and sixty one in figures. **(33,461)**

2. Look at the number sentence on your sheet. Write the correct value in the missing box. **(100)**

3. Multiply one hundred and four by ten. **(1040)**

4. On your answer sheet is a scale. What is the number shown by the arrow? **(3220)**

5. It is 967 miles from London to Geneva. Round this distance to the nearest one hundred miles. **(1000)**

10 second response

6. Look at the numbers on your answer sheet. Write the number which is exactly divisible by three. **(33)**

7. Put a ring around the smallest of the five amounts on your sheet. **(2/10)**

8. Write in metres 12.75km **(12,750)**

9. What is one tenth of £1.50? **(15p)**

10. Add together 57, 20 and 11? **(88)**

11. Look at the thermometer on your sheet. What temperature does this thermometer show? **(-3°c)**

12. 570 add a number is 620. What is the number? **(50)**

13. What is double 56? **(112)**

14. What is the distance between the two arrows? **(35)**

15. John saves 50 pence per week. How much would John have saved after 36 weeks? **(£18)**

15 second response

16. Look at the timetable on your answer sheet. How long is the journey from Rainhill to St. Helens? **(16 min)**

17. Look at the drawing on your answer sheet. Estimate the size of angle A? **(70 degrees ± 5 degrees)**

18. Sue saves 10p a week for one year. How much did she save? **(£5.20)**

19. Look at the rectangle on your answer sheet. What is the perimeter of the rectangle? **(28cm)**

20. How many centimetres are equivalent to 3.67 metres? **(367)**

<u>Year FiveMental Arithmetic Test 8</u>

<u>5 second response</u>

1. **Write the number seventy eight thousand in figures. (78000)**

2. **Look at the number sentence on your sheet. Write the correct value in the missing box. (147)**

3. **Multiply two hundred and fifty by ten. (2500)**

4. **On your answer sheet is a scale. What is the number shown by the arrow? (32500)**

5. **It is 1408 miles from London to Milan. Round this distance to the nearest one hundred miles. (1400)**

<u>10 second response</u>

6. **Look at the numbers on your answer sheet. Write the number which is exactly divisible by three. (93)**

7. **Put a ring around the largest of the five amounts on your sheet. (5/8)**

8. **What is 75% of £10? (£7.50)**

9. **What is one tenth of £7.40? (74p)**

10. **How much more is 120 than 75? (45)**

11. **Look at the number sequence on your sheet. Which number is missing from the empty box? (42,36,30, 24)**

12. **What is 4000 subtract 3? (3997)**

13. **What is half of 116? (58)**

14. **What is the distance between the two arrows? (45)**

15. **What is 24 multiplied by 50? (1200)**

<u>15 second response</u>

16. **Look at the timetable on your answer sheet. How long is the journey from Liverpool to St. Helens? (41 min)**

17. **Look at the drawing on your answer sheet. Estimate the size of angle A? (135 degrees ± 5 degrees)**

18. **Four people paid a total of £72 for football tickets. What was the cost of each ticket? (£18)**

19. **Look at the rectangle on your answer sheet. What is the length of side A? (6 cm)**

20. **Look at the diagram on your answer sheet. Is angle A an acute, obtuse or right angle? (right angle)**

Year Five Mental Arithmetic Test 9

5 second response

1. **Write the number sixty nine thousand three hundred in figures. (69,300)**

2. **Look at the number sentence on your sheet. Write the correct value in the missing box. (237)**

3. **Multiply two point four by ten. (24)**

4. **On your answer sheet is a scale. What is the number shown by the arrow? (32900)**

5. **It is 32,968 miles from London to New York. Round this distance to the nearest one hundred miles.(33,000)**

10 second response

6. **Look at the numbers on your answer sheet. Write the number which is exactly divisible by three and five. (30)**

7. **Put a ring around the smallest of the five numbers on your sheet. (1000)**

8. **What is ¼ of £10? (£2.50)**

9. **What is 10% of £3.50? (35p)**

10. **Add 78 and 73? (151)**

11. **The temperature was -2°c. It rises by 6°c. What is the temperature now? (4°C)**

12. **What is 3006 take away 12? (2994)**

13. **What is double 78? (156)**

14. **How much flour is recorded on the scale? (3.5 kg)**

15. **What is the product of 11 and 25? (275)**

15 second response

16. **Look at the timetable on your answer sheet. How long is the journey from Rainhill to Wigan? (41min)**

17. **Look at the drawing on your answer sheet. What is the size of angle A? (80°)**

18. **Joe buys four 35p stamps. How much did the stamps cost altogether? (£1.40)**

19. **Look at the rectangle on your answer sheet. What is the length of side A? (4 cm.)**

20. **Look at the diagram on your answer sheet. Is angle A an acute, obtuse or right angle? (obtuse)**

Year Five Mental Arithmetic Test 10

5 second response
1. **Write the number forty eight thousand five hundred and twenty in figures. (48,520)**
2. **Look at the number sentence on your sheet. Write the correct value in the missing box. (96)**
3. **Multiply six point nine by ten. (69)**
4. **On your answer sheet is a scale. What is the number shown by the arrow? (32300)**
5. **It is 9981 miles from London to Madras. Round this distance to the nearest one hundred miles. (10,000)**

10 second response
6. **Look at the numbers on your answer sheet. Write the number which is exactly divisible by four. (36)**
7. **Put a ring around the largest of the five numbers on your sheet. (1100)**
8. **What is ¾ of £5? (£3.75)**
9. **Write in metres 268cm. (2.68m)**
10. **What is 164 minus 51? (113)**
11. **Look at the number sequence on your sheet. Which number is missing from the empty box? (200,225,250,275)**
12. **What is 705 subtract 487? (218)**
13. **What is half of 134? (67)**
14. **How much flour is recorded on the scale? (3.3kg)**

15 second response
15. **Balloons cost 25p. How much would 13 balloons cost? (£3.25)**
16. **Look at the timetable on your answer sheet. How long is the journey from Liverpool to Wigan?(1h 6min)**
17. **Look at the drawing on your answer sheet. Estimate the size of angle A? (170° ± 5°)**
18. **Petrol cost 61.5p per litre. How much would two litres cost? (£1.23)**
19. **Look at the rectangle on your answer sheet. What is the area of the rectangle? (12cm²)**
20. **Look at the diagram on your answer sheet. Is angle A an acute, obtuse or right angle? (acute)**

<u>Year Five Mental Arithmetic Test 11</u>

<u>10 second response</u>

1. **Write the number forty thousand nine hundred and twenty seven in figures.(40,927)**
2. **Look at the number sentence on your sheet. Write the correct value in the missing box.(51)**
3. **Multiply twelve point five by ten. (125)**
4. **On your answer sheet is a scale. What is the number shown by the arrow?(325)**
5. **It is 1621 miles from London to Rome. Round this distance to the nearest one thousand miles. (2000)**

<u>15 second response</u>

6. **Look at the numbers on your answer sheet. Write the number which is exactly divisible by four. (44)**
7. **Put a ring around the smallest of the five numbers on your sheet. (0.1)**
8. **What is F of 1km? (200m)**
9. **What is 10% of £3.60?(36p)**
10. **An apple costs 23 pence. An orange costs 25 pence. How much are they altogether? (48p)**
11. **The temperature falls from 7°c to -2°c. How many degrees does the temperature fall? (9°C)**
12. **What is 428 take away 43? (385)**
13. **What is double 420? (840)**
14. **How much flour is recorded on the scale? (3.7kg)**
15. **What is 23 multiplied by 5? (115)**

<u>15 second response</u>

16. **Look at the timetable on your answer sheet. How long is the journey from St. Helens to Wigan? (25min.)**
17. **Look at the drawing on your answer sheet. What is the size of angle A?(50°)**
18. **Jill bought a can of paint for £7.25. How much change did she get from £10? (£2.75)**
19. **Look at the rectangle on your answer sheet. What is the area of the rectangle? (49cm²)**
20. **How many years are equivalent to one century? (100)**

Year Five Mental Arithmetic Test 12

5 second response

1. Write the number sixty one thousand three hundred and seven in figures. **(61,307)**

2. Look at the number sentence on your sheet. Write the correct value in the missing box. **(86)**

3. Multiply three hundred and twenty four by one hundred. **(32400)**

4. On your answer sheet is a scale. What is the number shown by the arrow? **(375)**

5. It is 8651 miles from London to Kabul. Round this distance to the nearest one thousand miles. **(9000)**

10 second response

6. Look at the numbers on your answer sheet. Write the number which is exactly divisible by eight. **(64)**

7. Put a ring around the largest of the five numbers on your sheet. **(11.1)**

8. What is ½ of 7km? **(3.5km or 3km 500m)**

9. Write in kilograms 7520g. **(7.520kg or 7.52kg)**

10. What must I take from 150 to leave 95? **(55)**

11. Look at the number sequence on your answer sheet. Write the missing number in the box. (1,2,4,8,**16**)

12. What is 3.1 subtract 1.6? **(1.5)**

13. What is half of 680? **(340)**

14. How much flour is recorded on the scale? **(3.9kg)**

15. What is 47 multiplied by 5? **(235)**

15 second response

16. Look at the timetable on your answer sheet. How long is the journey from Liverpool to Rainhill? **(25 min)**

17. Look at the drawing on your answer sheet. What is the size of angle A? **(20°)**

18. How many toys costing £1.50 each can you buy for £8? **(5)**

19. Look at the rectangle on your answer sheet. What is the area of the rectangle? **(56cm²)**

20. A full bucket holds 5 ½ litres. A full jug holds ½ a litre. How many jugs of water will fill the bucket? **(11 jugs)**

YEAR 5   Mental Arithmetic Test 7
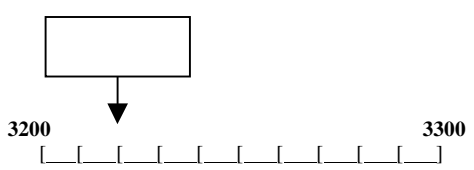
Name: **Date:**

1

2   ☐ **- 11 = 89**

3   **104   10**

4

☐
↓

3200   **3300**
[__[__[__[__[__[__[__[__[__[___[__]

5   **967**
     miles
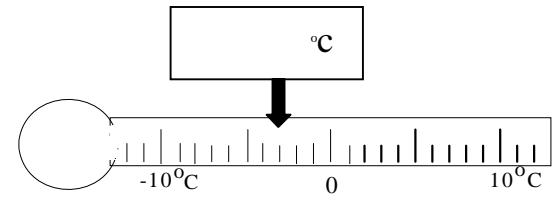
6   **13   37**
                            33   32

7   1   2   F
          3   N

8   **12.75km**
     m
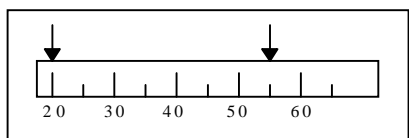
9   **/   £1.50**

10   **57   20   11**

11

°C

↓

-10°C   0   10°C

12   **570   620**

13

14
↓   ↓
2 0   3 0   4 0   5 0   6 0
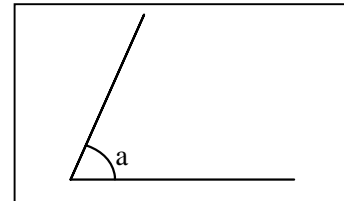
15   **50p   36**

16

Liverpool	0940	1010	1040	1110
Rainhill	1005	1035	1105	1135
St Helens	1021	1051	1121	1151
Wigan	1046	1116	1146	1216

17   0

a

18

19   **7.5cm**
         6.5cm
   cm

20   **3.67m**
   cm
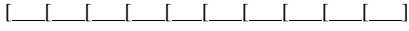
YEAR 5   Mental Arithmetic Test 8

Name: **Date:**

1

2 ☐ - 10 = 137

3   250   10

4
32000   ☐   33000

[__|__|__|__|__|__|__|__|__|__|__]

5   miles   1408

6   73   37
                    93   49

7   1   2   F
       3   N

8   75%   £10
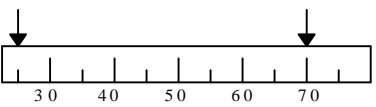
9   /   £7.40

10   120   75

11   42, 36, 30, ☐

12   4000   3

13

14
↓   ↓
30   40   50   60   70
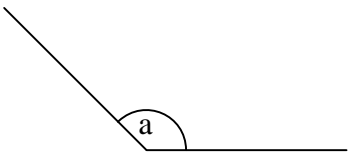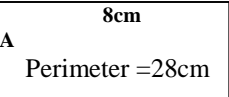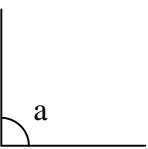
15   24   50

16

Liverpool	0940	1010	1040	1110
Rainhill	1005	1035	1105	1135
St Helens	1021	1051	1121	1151
Wigan	1046	1116	1146	1216

17   0

a

18   4   £72

19   cm
                8cm
          A   Perimeter =28cm

20

a
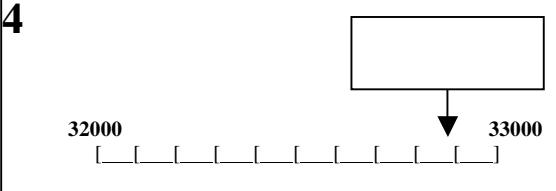
YEAR 5   Mental Arithmetic Test 9

Name: **Date:**

1

2   ☐ $- 100 = 137$

3   **2.4**   **10**

4

32000 [__|___|__|__|__|__|__|__|__|__] 33000

5   **miles**   **32968**

6   **30**   **10**
                        93   **25**

7   **1000**   **1001**   **1010**
          1100   **1011**

8   **3**   **£10**
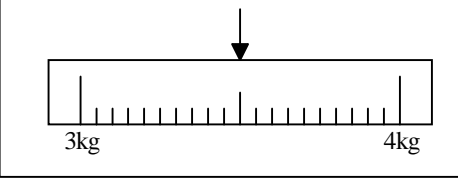
9   **10%**   **£3.50**

10   **78**   **73**

11   **°C**

12   **3006**   **12**

13

14
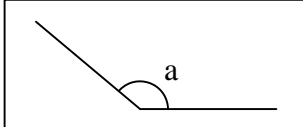
3kg   4kg

15   **11**   **25**

16

Liverpool	0940	1010	1040	1110
Rainhill	1005	1035	1105	1135
St Helens	1021	1051	1121	1151
Wigan	1046	1116	1146	1216

17   **0** $100°$ a

18   **4**   **35p**

19   **cm**   **A**   **13cm**   Perimeter =34cm

20   a
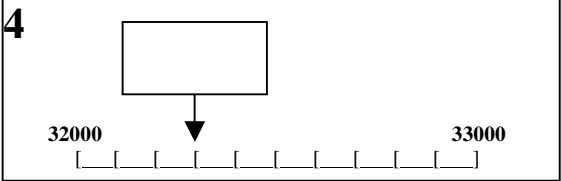
YEAR 5   Mental Arithmetic Test 10

Name: **Date:**

1

2   [ ] - 32 = 64

3   6.9   10

4

32000   33000

5   miles   9981

6   10   36
        42   50

7   1000   1001   1010
     1100   1011

8   ⊢   £5
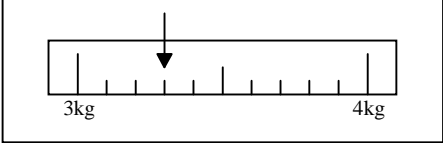
9   268cm
    m

10   164   51

11   200, 225, 250, [ ]

12   705   487

13

14
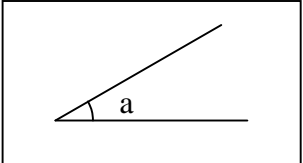
3kg   4kg

15   25p   13

16

Liverpool	0940	1010	1040	1110
Rainhill	1005	1035	1105	1135
St Helens	1021	1051	1121	1151
Wigan	1046	1116	1146	1216

17   0   a

18   2   61.5p

19 cm^2 3cm   4cm

20   a
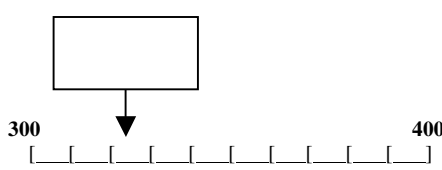
YEAR 5   Mental Arithmetic Test 11

Name: **Date:**

1

2 ☐ - 26 = 25

3   12.5   10

4 ☐

300 ↓ 400
[__|__|__|__|__|__|__|__|__|__|__]

5   miles   1621

6   10   38
               44   50

7   1   0.1   10
      11   1.1

8   F   1km
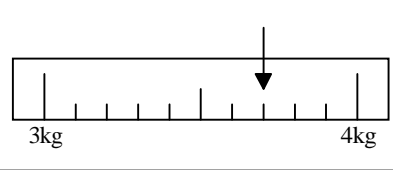
9   10%   £3.60

10   p   23p   25p

11 ^{0}C

12   428   43

13

14 ↓ 3kg   4kg
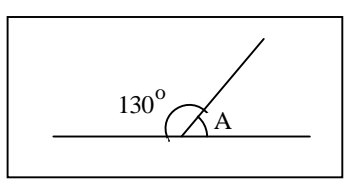
15   23   5

16

Liverpool	0940	1010	1040	1110
Rainhill	1005	1035	1105	1135
St Helens	1021	1051	1121	1151
Wigan	1046	1116	1146	1216

17   0   130°   A

18   £7.25   £10

19   cm^2 7cm   7cm

20   years
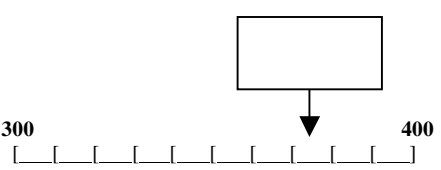
YEAR 5   Mental Arithmetic Test 12

Name: **Date:**

1

2   ☐ **- 21 = 65**

3   **324   100**

4
300   ☐↓   400

5   **8651**
miles

6   **18   38**
               64   58

7   **10.1   0.1   10**
         11.1   1.1

8   **1   7km**

9   **7520g**
kg

10   **150   95**

---

11   **1, 2, 4, 8,** ☐

12   **3.1   1.6**

13

14
3kg   4kg

15   **47   5**

16

Liverpool	0940	1010	1040	1110
Rainhill	1005	1035	1105	1135
St Helens	1021	1051	1121	1151
Wigan	1046	1116	1146	1216

17   **0**
a   160°

18   **£1.50   £8**

19   **cm²**   **8cm**
                          7cm

20   **5 1⁄   1⁄**