

PHOTOCOPIABLE

Mental Arithmetic Questions

Book 5 is for

Year 7

by Helen Maden

Mental Arithmetic Questions Book 5 is one of a series of six books which provide a bank of easily accessible Mental Arithmetic Questions for use in a variety of classroom situations. It contains thirty different exercises which progressively get harder. Each exercise includes: Teacher Questions suitable for reading aloud, all answers needed and a photocopiable Pupil Answer Sheet with prompts given where necessary.

Book 5 includes work from The National Curriculum Levels 4 to 5+, mathematical problems using numbers up to 10,000,000 and concepts taken from The National Numeracy Strategy Key Objectives for Year Six and Seven.

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Book 5 Test 2 Teacher Questions

| No. | Question | Answer |
|---------------------------------|--|---------------------------------|
| Five Second Questions | | |
| 1 | What is the next prime number after 7 ? | 11 |
| 2 | What is the size of the missing angle in this triangle ? | 40° |
| 3 | What is $\frac{3}{4}$ as a percentage ? | 75% |
| 4 | Write the number nine million, seven hundred thousand and six. | 9,700,006 |
| 5 | Which number has more than 'evens' chance of coming up on this spinner ? | 4 |
| 6 | If n is a number, write the expression for n times n . | n^2 |
| 7 | If $x+7=9$, what is x ? | 2 |
| 8 | Which 2 given numbers add together to make 3 ? | 0.59 / 2.41 |
| 9 | Add 23, 25, 26, 27 and 24. | 125 |
| 10 | What is the product of 34 and 10 ? | 340 |
| Ten Second Questions | | |
| 11 | 2.2 pounds make 1 kilogram. How many pounds are there in seventeen kilograms? | 37.4 |
| 12 | Circle any two given numbers with a difference of 5. | -4 and 1 <i>or</i> -4 and -9 |
| 13 | What time on the 12 hour clock is 21.41 ? | 9.41pm |
| 14 | Circle 2 given numbers that are multiples of 3. | 831 / 726 |
| 15 | What is 890 millilitres in litres ? | 0.89 litres |
| Fifteen Second Questions | | |
| 16 | If I think of a number, and divide this number by 2 then add 17 and finally take away 5, the answer is 22. What is the number I first thought of ? | 20 |
| 17 | What is the mean of 4.3, 5.2, 5.7 and 5.2? | 5.1 |
| 18 | In a test, Gill scored 32 out of 50. What is this as a percentage? | 64% |
| 19 | What is the total of 5.6, 7.5, -3.2 and -3.9 ? | 6 |
| 20 | What expression would go in the missing box? | $3n^2 + 4x$ |

Book 5 Test 2 Pupil Answer Sheet

Name _____

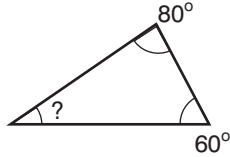
Date _____

Total Score

Five Second Questions

1

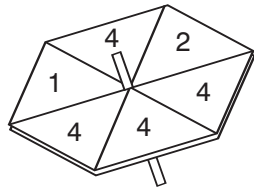
2 °



3 % $\frac{3}{4}$

4

5



6

7 $x + 7 = 9$

8 4.2 2.41 1.69 0.59

9 23, 25, 26, 27, 24

10

Ten Second Questions

11 lbs 2.2 lb = 1 kg

12 -7, 1, 2, -4, 0, -9

13 pm

14 274, 236, 831, 726

15 litres 890 ml

Fifteen Second Questions

16

17 4.3 5.2 5.7 5.2

18 % $\frac{32}{50}$

19 5.6, 7.5, -3.2, -3.9,

20

| | | |
|----------|--------|-----------|
| n^2+3 | n^2 | n^2+3x |
| $7n^2-6$ | $7n^2$ | $7n^2-6x$ |
| $3n^2+4$ | $3n^2$ | ? |

Book 5 Test 29 Teacher Questions

| No. | Question | Answer |
|---------------------------------|--|-------------------------------|
| Five Second Questions | | |
| 1 | Write down <u>two</u> prime factors of 6552 | 2, 3, 91 |
| 2 | What is the next number in this sequence? 1, 1, 2, 3, 5, 8. | 13 |
| 3 | What temperature does the thermometer read? | -3° |
| 4 | What is $\frac{45}{6}$ as a mixed number? | $7\frac{3}{6} = 7\frac{1}{2}$ |
| 5 | What is 12 km in m? | 12000m |
| 6 | Circle 2 given numbers which add up to make 6.98. | 6.01, 0.97 |
| 7 | Which letter has an 'evens' chance of coming up on this spinner? | C |
| 8 | If n is a number, what is for 4n take away 2n? | 2n |
| 9 | What is $\frac{6}{8}$ as a decimal? | 0.75 |
| 10 | How many days are there in March and April altogether? | 61 |
| Ten Second Questions | | |
| 11 | What is 4% of 300? | 12 |
| 12 | What is the product of 15 and 40? | 600 |
| 13 | If apples cost £2.50 per kilogram, how much will 5 and a half kilograms cost? | £13.75 |
| 14 | 2.2 pounds make 1 kilogram. How many pounds are there in fourteen and a quarter kilograms? | 31.35 lbs |
| 15 | Circle the given number that is a multiple of 3. | 348 |
| Fifteen Second Questions | | |
| 16 | What expression should go in the missing box? | $2x^2$ |
| 17 | What is 6.12×20 ? | 122.4 |
| 18 | What is the total of 234.34, 267.45 and -234.31? | 267.48 |
| 19 | Describe this pattern. 8, 16, 6, 12, 2, 4, -6. | $\times 2$, -10 |
| 20 | What is 15% of 40 plus 10% of 65? | 12.5 |

Book 5 Test 29 Pupil Answer Sheet

Name _____

Date _____

Total Score

Five Second Questions

1

6552

2

1, 1, 2, 3, 5, 8

3 o



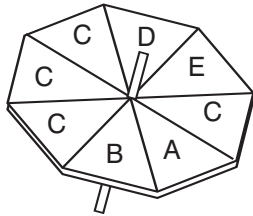
4

$45/6$

5 m

6 6.1, 6.01, 0.96, 0.97

7



8

9

$6/8$

10 days

Ten Second Questions

11

12

13 £ .

14 lbs

2.2lb = 1kg

15 674, 694, 835, 634, 348

Fifteen Second Questions

16

| | | |
|--------|--------|------|
| $x+1$ | x^2 | x |
| $2x+1$ | ? | $2x$ |
| $3x+1$ | $3x^2$ | $3x$ |

17

6.12

18

234.34, 267.45,
-234.31

19

8, 16, 6, 12, 2, 4, -6

20