48 Rapid Arithmetic Activities

Quick activities designed to last up to 10 minutes. Based on the Test Frameworks and arithmetic requirements in the National Curriculum from 2014. Answers included.

Question Codes

③ Year 3 Programme of Study

④ Year 4 Programme of Study

ℕ Number

ℂ Calculations

𝔽 Fractions (including decimals)

Sample

Tip: Press **Ctrl+L** to view pdf full screen.
Press **Esc** to return.

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Rapid Arithmetic

Rapid Arithmetic

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Sample

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Rapid Arithmetic

1 $\dfrac{4}{9} + \dfrac{3}{9} =$

3F4 add and subtract fractions with the same denominator within one whole

2 $943 - 500 =$

3C1 add and subtract numbers mentally, including: a three-digit number and hundreds

3 Write $\dfrac{49}{100}$ as a decimal

4F6b recognise and write decimal equivalents of any number of tenths or hundredths

4
$$7\,5\,6\,3$$
$$+\,2\,4\,3\,4$$

4C2 add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate

5 $3.5 + 3.3 =$

4F8 compare numbers with the same number of decimal places up to two decimal places

6 $4 \times 7 =$

4C6a recall multiplication and division facts for multiplication tables up to 12 × 12

Sample

3

Rapid **Arithmetic**

1 $\dfrac{4}{9} + \dfrac{3}{9} = \dfrac{7}{9}$

3F4 add and subtract fractions with the same denominator within one whole

4

$$\begin{array}{r} 7\,5\,6\,3 \\ +\,2\,4\,3\,4 \\ \hline 9\,9\,9\,7 \end{array}$$

4C2   add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate

2   **943 – 500 = 443**

3C1   add and subtract numbers mentally, including: a three-digit number and hundreds

5   **3.5 + 3.3 = 3.8**

4F8   compare numbers with the same number of decimal places up to two decimal places

3   **Write** $\dfrac{49}{100}$ **as a decimal**   **0.49**

4F6b recognise and write decimal equivalents of any number of tenths or hundredths

6   **4 x 7 = 28**

4C6a   recall multiplication and division facts for multiplication tables up to 12×12

Sample

Rapid Arithmetic

1 **1,094 – 100 =**

3N2b find 10 or 100 more or less than a given number

4 **9 x 9 =**

4C6a recall multiplication and division facts for multiplication tables up to 12 × 12

2 **74 + 8 =**

3C1 add and subtract numbers mentally, including:
a three-digit number and ones

5 **0, ___, 100, ___, 200**

3N1b count from 0 in multiples of 4, 8, 50 and 100

3 **524 – 70 =**

3C1 add and subtract numbers mentally, including:
a three-digit number and tens

6 **Round 20.4 to the nearest whole number**

4F7 round decimals with one decimal place to the nearest whole number

Sample

5

Rapid Arithmetic

1 **1,094 – 100 = 994**

3N2b find 10 or 100 more or less than a given number

2 **74 + 8 = 82**

3C1 add and subtract numbers mentally, including:
a three-digit number and ones

3 **524 – 70 = 454**

3C1 add and subtract numbers mentally, including:
a three-digit number and tens

4 **9 x 9 = 81**

4C6a recall multiplication and division facts for
multiplication tables up to 12 × 12

5 **0, 50, 100, 150, 200**

3N1b count from 0 in multiples of 4, 8, 50 and 100

6 **Round 20.4 to the nearest whole number 20**

4F7 round decimals with one decimal place to the
nearest whole number

Sample

Rapid Arithmetic

1

$$307$$
$$+504$$

3C2 add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction

2 **7 x 4 =**

3C6 recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables

3 **Round 19,500 to the nearest thousand**

4N4b round any number to the nearest 10, 100 or 1,000

4 **60 x 60 =**

4C6b use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers

5 $\dfrac{9}{4} - \dfrac{5}{4} =$

4F4 add and subtract fractions with the same denominator

6 **___, ___, 35, ___, 49**

4N1 count in multiples of 6, 7, 9, 25 and 1,000

Sample

7

Rapid Arithmetic

1

$$
\begin{array}{r}
3\,0\,7 \\
+\,5\,0\,4 \\
\hline
8\,1\,1
\end{array}
$$

3C2 add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction

2 $7 \times 4 = 28$

3C6 recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables

3 Round **19,500** to the nearest thousand **20,000**

4N4b round any number to the nearest 10, 100 or 1,000

4 $60 \times 60 = 3,600$

4C6b use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers

5 $\dfrac{9}{4} - \dfrac{5}{4} = \dfrac{4}{4}$ or 1

4F4 add and subtract fractions with the same denominator

6 **21**, **28**, 35, **42**, 49

4N1 count in multiples of 6, 7, 9, 25 and 1,000

Sample

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