

Arithmetic Trail Chaser

National Curriculum Objectives:

Mathematics Year 1: Add and subtract one-digit and two-digit numbers to 20, including zero. [More resources with this objective.](#)

Mathematics Year 2: Solve problems with addition and subtraction applying their increasing knowledge of mental and written methods. [More resources with this objective.](#)

Mathematics Year 2: Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers. [More resources with this objective.](#)

Mathematics Year 3: Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. [More resources with this objective.](#)

Mathematics Year 3: Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. [More resources with this objective.](#)

Mathematics Year 4: Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate. [More resources with this objective.](#)

Mathematics Year 4: Recall multiplication and division facts for multiplication tables up to 12×12 . [More resources with this objective.](#)

Mathematics Year 4: Multiply two-digit and three-digit numbers by a one-digit number using formal written layout. [More resources with this objective.](#)

Mathematics Year 5: Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction). [More resources with this objective.](#)

Mathematics Year 5: Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers. [More resources with this objective.](#)

Mathematics Year 5: Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000. [More resources with this objective.](#)

Mathematics Year 6: Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication. [More resources with this objective.](#)

Mathematics Year 6: Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context. [More resources with this objective.](#)

Mathematics Year 6: Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places. [More resources with this objective.](#)

Differentiation:

Beginner Adding and subtracting 1- and 2-digit numbers up to 20. Aimed at Year 1 Secure/Year 2 Emerging.

Easy Adding and subtracting 1- and 2- digit numbers up to 30; multiplying and dividing by 2, 5 and 10. Aimed at Year 2 Secure/Year 3 Emerging.

Tricky Adding and subtracting 2- and 3-digit numbers; multiplying and dividing by 3, 4 and 8. Aimed at Year 3 Secure/Year 4 Emerging.

Expert Adding and subtracting up to 4-digit numbers; adding three 1-digit numbers, multiplying and dividing up to 12×12 ; multiplying 2-digit numbers by 1-digit numbers. Aimed at Year 4 Secure/Year 5 Emerging.

Brainbox Adding and subtracting up to 4-digit numbers; multiplying and dividing up to 4-digit numbers by 1-digit numbers; multiplying three 1-digit numbers; multiplying and dividing whole numbers and decimals by 10 and 100. Aimed at Year 5 Secure/Year 6 Emerging.

Genius Adding and subtracting up to 6-digit numbers including decimals; long multiplication and division up to 4-digit numbers by 2-digit numbers; multiplying and dividing whole numbers and decimals by 1000; cube numbers. Aimed at Year 6 Secure.

Did you like this resource? Don't forget to review it [here](#).

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Trail Chaser – Arithmetic – Teaching Information

Like this? Find more differentiated Arithmetic resources [here](#).

Arithmetic Trail Chaser

Start at any question and draw a line to the answer. Then start at the question on the same shape and join it to the answer on a different shape with a line. Stop when you have connected all the questions and answers together.

$$20 - 11 =$$

$$18$$

$$20 - 6 =$$

$$16$$

$$7 + 12 =$$

$$12$$

$$6 + 12 =$$

$$8$$

$$8 + 8$$

$$0$$

$$0 + 15 =$$

$$9$$

$$14$$

$$8 + 0 =$$

$$15$$

$$3 - 2 =$$

$$1$$

$$17 - 14 =$$

$$3$$

$$6 + 6 =$$

$$13 - 13 =$$

$$20$$

$$19$$

$$13 + 7 =$$

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$20 - 11 =$ 18	$20 - 6 =$ 16	$7 + 12 =$ 12	$6 + 12 =$ 8
$8 + 8$ 0	$0 + 15 =$ 9	14 $8 + 0 =$	15 $3 - 2 =$
1 $17 - 14 =$	3 $6 + 6 =$	$13 - 13 =$ 20	19 $13 + 7 =$

Connections shown in the image:

- $20 - 11 =$ connects to 18
- $20 - 6 =$ connects to 16
- $7 + 12 =$ connects to 19
- $6 + 12 =$ connects to 15
- $8 + 8$ connects to 14
- $0 + 15 =$ connects to 12
- 14 connects to $8 + 0 =$
- 15 connects to $3 - 2 =$
- 1 connects to $17 - 14 =$
- 3 connects to $6 + 6 =$
- $13 - 13 =$ connects to 0
- 20 connects to $13 + 7 =$

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Trail Chaser – Arithmetic – Beginner **ANSWERS**

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Arithmetic Trail Chaser

Start at any question and draw a line to the answer. Then start at the question on the same shape and join it to the answer on a different shape with a line. Stop when you have connected all the questions and answers together.

$$35 - 10 =$$

$$32$$

$$7 \times 5 =$$

$$4$$

$$30 - 10 =$$

$$7$$

$$16 + 16 =$$

$$18$$

$$40 \div 10 =$$

$$26$$

$$4 \times 5 =$$

$$25$$

$$35$$

$$27 - 9 =$$

$$20$$

$$22 + 12 =$$

$$34$$

$$10 \times 6 =$$

$$60$$

$$14 \div 2 =$$

$$15 + 11 =$$

$$24$$

$$20$$

$$12 \times 2 =$$

Arithmetic Trail Chaser

Start at any question and draw a line to the answer. Then start at the question on the same shape and join it to the answer on a different shape with a line. Stop when you have connected all the questions and answers together.

$35 - 10 =$ 32	$7 \times 5 =$ 4	$30 - 10 =$ 7	$16 + 16 =$ 18
$40 \div 10 =$ 26	$4 \times 5 =$ 25	35 $27 - 9 =$	20 $22 + 12 =$
34 $10 \times 6 =$	60 $14 \div 2 =$	$15 + 11 =$ 24	20 $12 \times 2 =$

Connections shown in the image:

- $35 - 10 =$ connects to 32
- $7 \times 5 =$ connects to 35
- $30 - 10 =$ connects to 7
- $16 + 16 =$ connects to 32
- $40 \div 10 =$ connects to 26
- $4 \times 5 =$ connects to 25
- 35 connects to 27 - 9 =
- 20 connects to 22 + 12 =
- 34 connects to 10 x 6 =
- 60 connects to 14 ÷ 2 =
- $15 + 11 =$ connects to 24
- 20 connects to 12 x 2 =

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Trail Chaser – Arithmetic – Easy **ANSWERS**

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resources [here](#).

Arithmetic Trail Chaser

Start at any question and draw a line to the answer. Then start at the question on the same shape and join it to the answer on a different shape with a line. Stop when you have connected all the questions and answers together.

101
$137 + 10 =$

$396 + 19 =$
154

$254 - 100 =$
10

$506 + 32 =$
12

$80 \div 8 =$
16

$48 \div 4 =$
24

415
$3 \times 8 =$

147
$365 - 21 =$

$75 + 26 =$
32

344
$4 \times 4 =$

$164 - 32 =$
538

132
$4 \times 8 =$

Arithmetic Trail Chaser

Start at any question and draw a line to the answer. Then start at the question on the same shape and join it to the answer on a different shape with a line. Stop when you have connected all the questions and answers together.

101
$137 + 10 =$

$396 + 19 =$
154

$254 - 100 =$
10

$506 + 32 =$
12

$80 \div 8 =$
16

$48 \div 4 =$
24

415
$3 \times 8 =$

147
$365 - 21 =$

$75 + 26 =$
32

344
$4 \times 4 =$

$164 - 32 =$
538

132
$4 \times 8 =$

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Trail Chaser – Arithmetic – Tricky **ANSWERS**

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Arithmetic Trail Chaser

Start at any question and draw a line to the answer. Then start at the question on the same shape and join it to the answer on a different shape with a line. Stop when you have connected all the questions and answers together.

<input type="checkbox"/> - 1843 = 5421
168

180
5830 - 327 =

132
400 - 175 =

72
78 ÷ 2 =

39
405 - 237 =

87 - 58 =
225

28
25 x 0 =

21
24 x 3 =

45 x 4 =
7264

5503
<input type="checkbox"/> ÷ 4 = 7

7 + 5 + 9 =
29

0
11 x 12 =

Arithmetic Trail Chaser

Start at any question and draw a line to the answer. Then start at the question on the same shape and join it to the answer on a different shape with a line. Stop when you have connected all the questions and answers together.

<input type="text"/> - 1843 = 5421
168

180
5830 - 327 =

132
400 - 175 =

72
78 ÷ 2 =

39
405 - 237 =

87 - 58 =
225

28
25 x 0 =

21
24 x 3 =

45 x 4 =
7264

5503
<input type="text"/> ÷ 4 = 7

7 + 5 + 9 =
29

0
11 x 12 =

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Trail Chaser – Arithmetic – Expert **ANSWERS**

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Arithmetic Trail Chaser

Start at any question and draw a line to the answer. Then start at the question on the same shape and join it to the answer on a different shape with a line. Stop when you have connected all the questions and answers together.

0.28
$1364 - 75 =$

$1745 \div \square = 5$
3853

$7 \times 2 \times 6 =$
7

0.729
$17.6 \times 100 =$

349
$7349 + 1775 =$

$439 \times 2 =$
821

1289
$7.29 \div 10 =$

$84 \div 12 =$
9124

$28 \div 100 =$
878

7963
$6004 - 2151 =$

$\square - 496 = 325$
84

$7310 + 653 =$
1760

Arithmetic Trail Chaser

Start at any question and draw a line to the answer. Then start at the question on the same shape and join it to the answer on a different shape with a line. Stop when you have connected all the questions and answers together.

$$\begin{array}{c} 0.28 \\ \hline 1364 - 75 = \end{array}$$

$$\begin{array}{c} 1745 \div \square = 5 \\ \hline 3853 \end{array}$$

$$\begin{array}{c} 7 \times 2 \times 6 = \\ \hline 7 \end{array}$$

$$\begin{array}{c} 0.729 \\ \hline 17.6 \times 100 = \end{array}$$

$$\begin{array}{c} 349 \\ \hline 7349 + 1775 = \end{array}$$

$$\begin{array}{c} 439 \times 2 = \\ \hline 821 \end{array}$$

$$\begin{array}{c} 1289 \\ \hline 7.29 \div 10 = \end{array}$$

$$\begin{array}{c} 84 \div 12 = \\ \hline 9124 \end{array}$$

$$\begin{array}{c} 28 \div 100 = \\ \hline 878 \end{array}$$

$$\begin{array}{c} 7963 \\ \hline 6004 - 2151 = \end{array}$$

$$\begin{array}{c} \square - 496 = 325 \\ \hline 84 \end{array}$$

$$\begin{array}{c} 7310 + 653 = \\ \hline 1760 \end{array}$$

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Trail Chaser – Arithmetic – Brainbox **ANSWERS**

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Start at any question and draw a line to the answer. Then start at the question on the same shape and join it to the answer on a different shape with a line. Stop when you have connected all the questions and answers together.

19,108
$1473 \div 6 =$

$34.23 - 2.89 =$
9.83

704
$76,234 + 695 =$

$974 - \square = 432$
76,929

$562 \times 34 =$
27

$20 \times \square = 20,000$
245.5

31.34
3^3

542
$154 \times 25 =$

537,333
$0.8 + 9.03 =$

0.00932
$543,876 - 6543 =$

$8448 \div 12 =$
1000

$9.32 \div 1000 =$
3850

Arithmetic Trail Chaser

Start at any question and draw a line to the answer. Then start at the question on the same shape and join it to the answer on a different shape with a line. Stop when you have connected all the questions and answers together.

19,108
$1473 \div 6 =$

$34.23 - 2.89 =$
9.83

704
$76,234 + 695 =$

$974 - \square = 432$
76,929

$562 \times 34 =$
27

$20 \times \square = 20,000$
245.5

31.34
3^3

542
$154 \times 25 =$

537,333
$0.8 + 9.03 =$

0.00932
$543,876 - 6543 =$

$8448 \div 12 =$
1000

$9.32 \div 1000 =$
3850

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Trail Chaser – Arithmetic – Genius **ANSWERS**

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