Year 1

Arithmetic

Questions

by Richard Brown

Contents Page

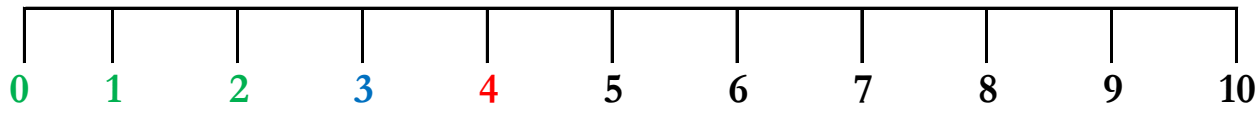
Number Grid

0	1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18	19
20	21	22	23	24	25	26	27	28	29
30	31	32	33	34	35	36	37	38	39
40	41	42	43	44	45	46	47	48	49
50	51	52	53	54	55	56	57	58	59
60	61	62	63	64	65	66	67	68	69
70	71	72	73	74	75	76	77	78	79
80	81	82	83	84	85	86	87	88	89
90	91	92	93	94	95	96	97	98	99
100	101	102	103	104	105	106	107	108	109
110	111	112	113	114	115	116	117	118	119
120	121	122	123	124	125	126	127	128	129
130	131	132	133	134	135	136	137	138	139
140	141	142	143	144	145	146	147	148	149
150	151	152	153	154	155	156	157	158	159

Key Language and Representations

Word Problems are the arithmetic number sentences written in a real-life reasoning and problem solving scenario. e.g. 3 + 4 = 7

Number Lines are used to count forwards e.g. 0, 1, 2, 3, 4, 5 and also to count backwards e.g. 10, 9, 8, 7, 6, 5.



Concrete Objects are manipulated or handled to calculate and represent a number sentence i.e. multilink cubes used for counting, sharing and halving.

e.g. 3 + 3 = 6

Column Addition is the formal written method of adding two or more numbers together, using a vertical arrangement in a columnar format.

	1s
	3
+	5
	8

	10s	1s
	1	0
+	1	0
	2	0

	1s
	2
	1
+	3
	6

Column Subtraction is the formal written method of subtracting a smaller number from a bigger number, using a vertical arrangement in a columnar format.

	1s
	3
-	1
	2

	10s	1s
	2	0
-	1	0
	1	0

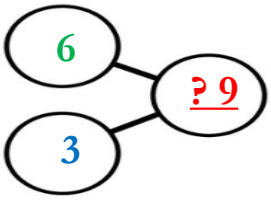
	10s	1s
	1	
	~~2~~	¹0
-	1	1
	0	9

Regroup 1 ten into **10 ones**.

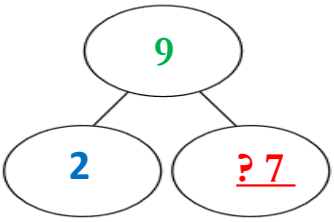
Strategy Applied refers to when a formal written method is used to calculate a number sentence e.g. 25 - 5 = 20
Explained using appropriate mathematical language, proven using concrete objects that can be handled, shown with pictorial representations visualising the calculations, to ensure a greater understanding of a mathematical concept.

Part Whole Models are pictorial mathematical images to represent varied calculations and number sentences.

e.g. 6 + 3 = ? 9

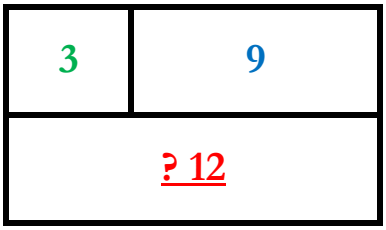


e.g. 9 - 2 = ? 7

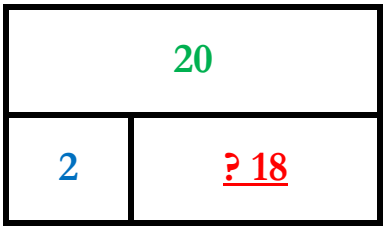


Bar Models are an image, that pictorially represents a number sentence.

e.g. 3 + 9 = ? 12



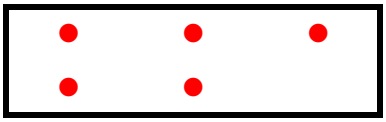
e.g. 20 - 2 = ? 18



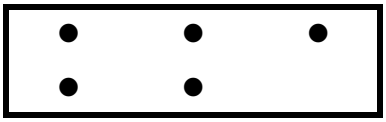
Groups of objects represents a total number of objects shared or divided into two or more groups of an equal number of the objects.

$\frac{1}{2}$ of 10 = 5

Group 1



Group 2



How Many

In each number, how many **10s** (tens) and **1s** (ones) are there?

1) 14 = ___

2) 15 = ___

3) 17 = ___

4) 19 = ___

5) 20 = ___

6) 23 = ___

7) 24 = ___

8) 32 = ___

9) 45 = ___

10) 57 = ___

11) 69 = ___

12) 70 = ___

13) 83 = ___

14) 94 = ___

Digit Value

What is the digit value of the **10s** (tens) and **1s** (ones) in each number?

1) 14 = ___

2) 15 = ___

3) 17 = ___

4) 19 = ___

5) 20 = ___

6) 23 = ___

7) 24 = ___

8) 32 = ___

9) 45 = ___

10) 57 = ___

11) 69 = ___

12) 70 = ___

13) 83 = ___

14) 94 = ___

1 More Than

1) 1 + 1 = ___

2) 4 + 1 = ___

3) 6 + 1 = ___

4) 5 + 1 = ___

5) Add eight and one together = ___

6) One more than 5 is = ___

7) Twelve is one more than = ___

8) 3mm + 1mm = ___

9) 27cm + 1cm = ___

10) 43m + 1m = ___

11) 55km + 1km = ___

12) Add eighty and one together = ___

13) One more than 99 is = ___

14) Sixty is one more than = ___

Multiples of 1s

1) 3 + 5 = ___

2) 7 + 3 = ___

3) 8 + 6 = ___

4) 9 + 6 = ___

5) 7m + 7m = ___

6) Add three and five together = ___

7) 9 cm + 10cm = ___

8) 16m + 3m = ___

9) Add twelve and six together = ___

10) Add fourteen and five together = ___

11) 19km + 2km = ___

12) 31 + 4 = ___

13) 42 + 3 = ___

14) 78 + 5 = ___

Multiples of 1s

1) 7 + ___ = 9

2) 4 + ___ = 6

3) 4 + ___ = 9

4) ___ + 9 = 11

5) ___ + 6 = 10

6) ___ + 9 = 11

7) 14 = 6 + ___

8) 13ml = 5ml + ___

9) 20ml = ___ + 4ml

10) 30L = ___ + 14L

11) 11L = 6L + ___

12) 17 = 5 + ___

13) 21 = ___ + 15

14) 29 = ___ + 20

10 More

1) 0 + 10 = ___

2) 10 + 10 = ___

3) 30 + 10 = ___

4) 60 + 10 = ___

5) 50 + 10 = ___

6) 40 + 10 = ___

7) 70 + 10 = ___

8) 20g + 10g = ___

9) 90g + 10g = ___

10) 100kg + 10kg = ___

11) ___ = 10kg + 10kg

12) ___ = 130 + 10

13) ___ = 140 + 10

14) ___ = 190 + 10

Bonds to 10 and 20

1) 1 + ___ = 10

2) 3 + ___ = 10

3) 5 + ___ = 10

4) 7 + ___ = 10

5) ___ + 8p = 10p

6) ___ + 6p = 10p

7) ___ + £14 = £20

8) ___ + £12 = £20

9) ___ + 0 = 10

10) ___ + 8 = 20

11) ___ + 12 = 20

12) ___ + 15 = 20

13) ___ + 14 = 20

14) ___ + 18 = 20

Multiple Numbers

1) 2 + 1 + 3 = ___

2) 3 + 2 + 4 = ___

3) 5 + 5 + 7 = ___

4) 6 + 6 + 2 = ___

5) 8 + 3 + 9 = ___

6) 10 + 10 + 10 = ___

7) 20 + 10 + 10 = ___

8) 30secs + 10secs + 10secs = ___

9) 50secs + 10secs + 10secs = ___

10) 50mins + 10mins + 10mins = ___

11) ___ = 10mins + 100mins + 10mins

12) ___ = 10hrs + 40hrs + 10hrs

13) ___ = 10hrs + 70hrs + 10hrs

14) ___ = 10 + 50 + 10

Multiples of 1s, 2s, 5s and 10s

In each **sequence** of numbers, find the next two missing numbers.

1) 2, 3, 4, ___, ___

2) 5, 6, 7, ___, ___

3) 13, 14, 15, ___, ___

4) 20, 21, 22, ___, ___

5) 0, 2, 4, ___, ___

6) 10, 12, 14, ___, ___

7) 20, 22, 24, ___, ___

8) 32, 34, 36, ___, ___

9) 0, 5, 10, ___, ___

10) 15, 20, 25, ___, ___

11) 30, 35, 40, ___, ___

12) 0, 10, 20, ___, ___

13) 40, 50, 60, ___, ___

14) 50, 60, 70, ___, ___

Doubling

1) 2 + 2 = ___

2) 4 + 4 = ___

3) 6 + 6 = ___

4) 1 + 1 = ___

5) 3 + 3 = ___

6) 5 + 5 = ___

7) 8 + 8 = ___

8) 10 + 10 = ___

9) 0 + 0 = ___

10) 11 + 11 = ___

11) 12 + 12 = ___

12) ___ = 13 + 13

13) ___ = 14 + 14

14) ___ = 15 + 15

Find The Missing Number

1) 4 + 3 + ___ = 9

2) 7 + 2 + ___ = 15

3) ___ + 4 + 12 = 22

4) 15 + ___ + 10 = 29

5) ___ + 3 + 8 = 18

6) 23 = 9 + 8 + ___

7) 11 = 3 + 5 + ___

8) 16 = 9 + ___ + 2

9) 20 = 1 + ___ + 10

10) 25 = ___ + 12 + 7

11) 8 + ___ + 7 = 21

12) 9 + 4 + ___ = 15

13) 33 = 13 + 15 + ___

14) 46 = 29 + ___ + 12

Find The Missing Number

1) 4 + ___ = 7 + 3

2) 7 + 2 = ___ + 5

3) ___ + 4 = 12 + 2

4) 15 + 4 = 10 + ___

5) ___ + 3 = 8 + 5

6) ___ + 9 = 8 + 6

7) ___ + 5 = 11 + 4

8) 12 + 4 = ___ + 6

9) 1 + 14 = ___ + 3

10) 16 + 2 = ___ + 7

11) 7 + 2 = ___ + 5

12) ___ + 5 = 11 + 3

13) 15 + 4 = 10 + ___

14) ___ + 7 = 12 + 6

1 Less Than

1) 2 - 1 = ___

2) 3 - 1 = ___

3) 8 - 1 = ___

4) 5 - 1 = ___

5) Subtract one from nine = ___

6) One less than 5 is = ___

7) Twelve is one less than = ___

8) 4mm - 1mm = ___

9) 6cm - 1cm = ___

10) 9m - 1m = ___

11) One less than 23 is = ___

12) 18 is one less than = ___

13) One less than 43 is = ___

14) ___ - 1km = 19km

Multiples of 1s

1) 5 - 3 = ___

2) 9 - 7 = ___

3) 14 - 7 = ___

4) 8 - 5 = ___

5) 9 - 0 = ___

6) 10 - 4 = ___

7) 18 - 5 = ___

8) 24mm - 6mm = ___

9) 33cm - 8cm = ___

10) 47m - 6m = ___

11) 56km - 3km = ___

12) 60 - 6 = ___

13) 78 is seven less than = ___

14) Eight less than 93 is = ___

Multiples of 1s

1) 17 - 5 = ___

2) 20 - 11 = ___

3) 19secs - 11secs = ___

4) 20secs - 12secs = ___

5) 18mins - 17mins = ___

6) Take away two from eleven = ___

7) ___ = 20mins - 8mins

8) ___ = 18hrs - 5hrs

9) ___ = 16hrs - 9hrs

10) Take away four from fifteen = ___

11) ___ = Subtract three from thirteen

12) ___ = Minus four from fourteen

13) Minus five from twenty six = ___

14) Subtract nine from thirty two = ___

10 Less Than

1) 10 - 10 = ___

2) 30 - 10 = ___

3) 50 - 10 = ___

4) 70 - 10 = ___

5) 90 - 10 = ___

6) 20 - 10 = ___

7) 40 - 10 = ___

8) 60g - 10g = ___

9) 80g - 10g = ___

10) 100kg - 10kg = ___

11) ___ = 120kg - 10kg

12) ___ = 150 - 10

13) ___ = 180 - 10

14) ___ = 200 - 10

Bonds to 10 and 20

1) 10 - 3 = ___

2) 10 - 6 = ___

3) 10 - 8 = ___

4) 10 - 1 = ___

5) 10p - ___ = 2p

6) 10p - ___ = 4p

7) 100p - ___ = 15p

8) £100 - ___ = £27

9) £100 - ___ = £40

10) £100 - ___ = £52

11) 100 - 36 = ___

12) 100 - 75 = ___

13) 100 - 88 = ___

14) 100 - 38 = ___

Multiple Numbers

1) 9 - 3 - 2 = ___

2) 11 - 2 - 4 = ___

3) 15 - 4 - 7 = ___

4) 18 - 5 - 2 = ___

5) 20 - 1 - 9 = ___

6) 30 - 10 - 10 = ___

7) 50 - 10 - 10 = ___

8) 40ml - 10ml - 10ml = ___

9) 60ml - 10ml - 10ml = ___

10) 100L - 10L - 10L = ___

11) ___ = 18L - 4L - 3L

12) ___ = 13 - 10 - 3

13) ___ = 150 - 20 - 10

14) ___ = 200 - 30 - 20

Multiples of 1s, 2s, 5s and 10s

In each **number pattern**, find the next two missing numbers.

1) 5, 4, 3, ___, ___

2) 10, 9, 8, ___, ___

3) 8, 7, 6, ___, ___

4) 19, 18, 17, ___, ___

5) 10, 8, 6, ___, ___

6) 12, 10, 8, ___, ___

7) 20, 18, 16, ___, ___

8) 30, 28, 26, ___, ___

9) 25, 20, 15, ___, ___

10) 30, 25, 20, ___, ___

11) 40, 45, 50, ___, ___

12) 50, 40, 30, ___, ___

13) 40, 30, 20, ___, ___

14) 120, 110, 100, ___, ___

Doubling

1) 3 - 1 - 1 = ___

2) 4 - 1 - 1 = ___

3) 5 - 2 - 2 = ___

4) 6 - 2 - 2 = ___

5) 7 - 2 - 2 = ___

6) 8 - 3 - 3 = ___

7) 9 - 3 - 3 = ___

8) 10 - 3 - 3 = ___

9) 11 - 4 - 4 = ___

10) 12 - 4 - 4 = ___

11) 13 - 5 - 5 = ___

12) 15 - 5 - 5 = ___

13) 18 - 5 - 5 = ___

14) 20 - 5 - 5 = ___

Find The Missing Number

1) 9 - ___ = 2

2) 6 - ___ = 6

3) 10 - ___ = 2

4) 10 - ___ = 10

5) 13 - ___ = 8

6) 16 - ___ = 6

7) 26 - ___ = 6

8) 30 - ___ = 10

9) ___ - 2 = 7

10) ___ - 4 = 6

11) ___ - 10 = 7

12) ___ - 1 = 19

13) ___ - 40 = 7

14) ___ - 31 = 19

Find The Missing Number

1) 17 - 3 = ___ - 2

2) 20 - 5 = ___ - 4

3) 18 - ___ = 6 + 5

4) 24 - ___ = 3 + 12

5) 19 - ___ = 6 + 5

6) 15 - ___ - 6 = 6

7) 18 - ___ - 4 = 12

8) 11 - 4 + 2 = ___

9) 13 - 2 + 5 = ___

10) 27 - 6 + 5 = ___

11) 24 - ___ + 7 = 17

12) 13 - 10 - 3 = ___

13) 45 - 6 - ___ = 31

14) 70 - 10 + 10 + 10 = ___

Repeated Addition

1) 2 x 3 = ___

2) 2 x 4 = ___

3) 2 x 5 = ___

4) 2 x 8 = ___

5) 5 x 3 = ___

6) 5 x 4 = ___

7) 5 x 6 = ___

8) 10 x 2 = ___

9) 10 x 3 = ___

10) 10 x 5 = ___

11) ___ = 2 x 7

12) ___ = 2 x 9

13) ___ = 5 x 8

14) ___ = 10 x 8

Repeated Subtraction

1) 6 ÷ 2 = ___

2) 8 ÷ 2 = ___

3) 10 ÷ 2 = ___

4) 12 ÷ 2 = ___

5) 18 ÷ 2 = ___

6) 10 ÷ 5 = ___

7) 15 ÷ 5 = ___

8) 20 ÷ 5 = ___

9) 30 ÷ 10 = ___

10) 50 ÷ 10 = ___

11) ___ = 16 ÷ 2

12) ___ = 24 ÷ 2

13) ___ = 40 ÷ 5

14) ___ = 80 ÷ 10

Fraction of a Quantity

1) $\frac{1}{2}$ of 10 = ___

2) $\frac{1}{4}$ of 12 = ___

3) $\frac{1}{4}$ of 20 = ___

4) A half of 4 = ___

5) A quarter of 4 = ___

6) Half of 20 = ___

7) ___ = $\frac{1}{2}$ of 20g

8) ___ = $\frac{1}{2}$ of 14kg

9) ___ = $\frac{1}{4}$ of 16ml

10) ___ = $\frac{1}{4}$ of 24L

Answers

P. 1

1) 1 ten and 4 ones
2) 1 ten and 5 ones
3) 1 ten and 7 ones
4) 1 ten and 9 ones
5) 2 tens and 0 ones
6) 2 tens and 3 ones
7) 3 tens and 0 ones
8) 4 tens and 5 ones
9) 5 tens and 7 ones
10) 6 tens and 9 ones
11) 7 tens and 0 ones
12) 8 tens and 3 ones
13) 9 tens and 4 ones
14) 9 tens and 9 ones

P. 2

1) 10 + 4
2) 10 + 5
3) 10 + 7
4) 10 + 9
5) 20 + 0
6) 20 + 3
7) 30 + 0
8) 40 + 5
9) 50 + 7
10) 60 + 9
11) 70 + 0
12) 80 + 3
13) 90 + 4
14) 90 + 9

P. 3

1) 2
2) 5
3) 7
4) 6
5) 9
6) 6
7) 11
8) 4mm
9) 28cm
10) 44m
11) 56km
12) 81
13) 100
14) 65

P. 4

1) 8
2) 10
3) 14
4) 15
5) 14mm
6) 8
7) 19cm
8) 19m
9) 18
10) 19
11) 21km
12) 35
13) 45
14) 83

P. 5

1) 2
2) 2
3) 5
4) 2
5) 4
6) 2
7) 8
8) 8ml
9) 16ml
10) 16L
11) 5L
12) 12
13) 6
14) 9

P. 6

1) 10
2) 20
3) 40
4) 70
5) 60
6) 50
7) 80
8) 30g
9) 100g
10) 110kg
11) 120kg
12) 140
13) 150
14) 200

P. 7

1) 10
2) 7
3) 5
4) 3
5) 2p
6) 4p
7) £6
8) £8
9) 10
10) 12
11) 8
12) 5
13) 6
14) 2

P. 8

1) 6
2) 9
3) 17
4) 14
5) 20
6) 30
7) 40
8) 50secs
9) 70secs
10) 100mins
11) 120mins
12) 60hrs
13) 90hrs
14) 70

P. 9

1) 5, 6
2) 8, 9
3) 17, 18
4) 23, 24
5) 6, 8
6) 16, 18
7) 26, 28
8) 38, 40
9) 15, 20
10) 30, 35
11) 45, 50
12) 30, 40
13) 70, 80
14) 80,90

Answers

P. 10	P. 11	P. 12	P. 13	P. 14	P. 15
1) 4	1) 2	1) 6	1) 1	1) 2	1) 12
2) 8	2) 6	2) 4	2) 2	2) 2	2) 9
3) 12	3) 6	3) 10	3) 7	3) 7	3) 8secs
4) 2	4) 4	4) 9	4) 4	4) 3	4) 8secs
5) 6	5) 7	5) 10	5) 8	5) 9	5) 1mins
6) 10	6) 6	6) 5	6) 4	6) 6	6) 9
7) 16	7) 3	7) 10	7) 13	7) 13	7) 12mins
8) 20	8) 5	8) 10	8) 3mm	8) 18mm	8) 13hrs
9) 0	9) 9	9) 12	9) 5cm	9) 25cm	9) 7hrs
10) 22	10) 6	10) 11	10) 8m	10) 41m	10) 11
11) 24	11) 6	11) 4	11) 22	11) 53km	11) 10
12) 26	12) 2	12) 9	12) 19	12) 54	12) 10
13) 28	13) 5	13) 9	13) 42	13) 85	13) 21
14) 30	14) 5	14) 11	14) 20km	14) 85	14) 23

P. 16	P. 17	P. 18	P. 19	P. 20	P. 21
1) 0	1) 7	1) 4	1) 2, 1	1) 1	1) 7
2) 20	2) 4	2) 5	2) 7, 6	2) 2	2) 0
3) 40	3) 2	3) 4	3) 5, 4	3) 1	3) 8
4) 60	4) 9	4) 11	4) 16, 15	4) 2	4) 0
5) 80	5) 8p	5) 10	5) 4, 2	5) 3	5) 5
6) 10	6) 6p	6) 10	6) 6, 4	6) 2	6) 10
7) 30	7) 86p	7) 30	7) 14, 12	7) 3	7) 20
8) 50g	8) £73	8) 20ml	8) 24, 22	8) 4	8) 20
9) 70g	9) £60	9) 40ml	9) 10, 5	9) 3	9) 9
10) 90kg	10) £48	10) 80L	10) 15, 10	10) 4	10) 10
11) 110kg	11) 64	11) 11L	11) 35, 30	11) 3	11) 17
12) 140	12) 25	12) 0	12) 20, 10	12) 5	12) 20
13) 170	13) 12	13) 130	13) 10, 0	13) 8	13) 47
14) 190	14) 62	14) 150	14) 90, 80	14) 10	14) 50

Answers

P. 22	P. 23	P. 24	P. 25
1) 16	1) 6	1) 3	1) 5
2) 19	2) 8	2) 4	2) 3
3) 7	3) 10	3) 5	3) 5
4) 9	4) 16	4) 6	4) 2
5) 8	5) 15	5) 9	5) 1
6) 3	6) 20	6) 2	6) 10
7) 2	7) 30	7) 3	7) 10g
8) 5	8) 20	8) 4	8) 7kg
9) 6	9) 30	9) 3	9) 4ml
10) 16	10) 50	10) 5	10) 6L
11) 0	11) 14	11) 8	
12) 0	12) 18	12) 12	
13) 8	13) 40	13) 8	
14) 40	14) 80	14) 8	