Arithmetic – Year 6 – Set 5

National Curriculum Objectives:

Mathematics Year 3: (3C1) Add and subtract numbers mentally, including a three-digit number and ones
Mathematics Year 3: (3C1) Add and subtract numbers mentally, including a three-digit number and tens
Mathematics Year 3: (3C1) Add and subtract numbers mentally, including a three-digit number and hundreds
Mathematics Year 3: (3C4) Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects
Mathematics Year 4: (4N2b) Find 1000 more or less than a given number
Mathematics Year 4: (4C2) Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate
Mathematics Year 4: (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
Mathematics Year 4: (4C7) Multiply two-digit and three-digit numbers by a one-digit number using formal written layout
Mathematics Year 5: (5C1) Add and subtract numbers mentally with increasingly large numbers
Mathematics Year 5: (5C2) Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)
Mathematics Year 5: (5C6a) Multiply and divide numbers mentally drawing upon known facts
Mathematics Year 5: (5C6b) Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000
Mathematics Year 5: (5C7b) Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context
Mathematics Year 5: (5C5d) Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)
Mathematics Year 5: (5F4) Add and subtract fractions with the same denominator and denominators that are multiples of the same number
Mathematics Year 5: (5F6a) Read and write decimal numbers as fractions [for example, 0.71 = 71/100]
Mathematics Year 5: (5F10) Solve problems involving number up to three decimal places
Mathematics Year 6: (6C7a) Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication
Mathematics Year 6: (6C7b) 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
Mathematics Year 6: (6C7b) Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context
Mathematics Year 6: (6C9) Use their knowledge of the order of operations to carry out calculations involving the four operations
Mathematics Year 6: (6F4) Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions
Mathematics Year 6: (6F5a) Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, 1/4 × 1/2 = 1/8]
Mathematics Year 6: (6F5b) Divide proper fractions by whole numbers [for example, 1/3 ÷ 2 = 1/6]

Arithmetic – Year 6 – Set 5

National Curriculum Objectives (cont.):

Mathematics Year 6: (6F9a) 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
Mathematics Year 6: (6F9b) Multiply one-digit numbers with up to two decimal places by whole numbers
Mathematics Year 6: (6F9c) Use written division methods in cases where the answer has up to two decimal places
Mathematics Year 6: (6R2) Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison

Differentiation:

Beginner Covering all mathematical knowledge in preparation for the KS2 arithmetic test. 39 questions. Aimed at Year 6 Secure (week 25).
Easy Covering all mathematical knowledge in preparation for the KS2 arithmetic test. 39 questions. Aimed at Year 6 Secure (week 26).
Tricky Covering all mathematical knowledge in preparation for the KS2 arithmetic test. 39 questions. Aimed at Year 6 Secure (week 27).
Expert Covering all mathematical knowledge in preparation for the KS2 arithmetic test. 39 questions. Aimed at Year 6 Secure (week 28).
Brainbox Covering all mathematical knowledge in preparation for the KS2 arithmetic test. 39 questions. Aimed at Year 6 Secure (week 29).
Genius Covering all mathematical knowledge in preparation for the KS2 arithmetic test. 39 questions. Aimed at Year 6 Secure (week 30).

More Arithmetic Resources.

Did you like this resource? Don't forget to review it here.

Arithmetic – Set 5 – Test 1

1 $999 + 100 =$

1 mark

2 $346 \div 1 =$

1 mark

3 $17{,}496 - 1{,}000 =$

1 mark

4 $30 \times 60 =$

1 mark

5 $3{,}546 + 18{,}940 =$

1 mark

6 $18 \times 10 =$

1 mark

7 17,402 – 11,500 =

1 mark

8 ☐ – 800 = 436

1 mark

9 384 ÷ 3 =

1 mark

10 30% of 40 =

1 mark

11 50 x 500 =

1 mark

12 4 ÷ 10 =

1 mark

13 ☐ x 8 = 64

1 mark

14 85 x 4 =

1 mark

15 $1\frac{3}{5} + \frac{4}{15} =$

1 mark

16 $160 \div 4 =$

1 mark

17 $85{,}642 + 1{,}939 =$

1 mark

18 $51 \div 100 =$

1 mark

19 $67 \times 9 =$

1 mark

20 $0.40 = \frac{\square}{\square}$

1 mark

21

$$\begin{array}{r} 426 \\ \times \quad 71 \\ \hline \end{array}$$

2 marks

22 $6.3 \times 4 =$

1 mark

23 $3.9 + 11.12 =$

1 mark

24 $85 + 12 \div 4 =$

1 mark

25 98,400 – 5,000 =

1 mark

26 8.9 x 10 =

1 mark

27 $1\frac{2}{9} \times 4 =$

1 mark

28 $60 - 3 \times 5 =$

1 mark

29 8% of 400 =

1 mark

30 423 + 18,940 =

1 mark

31 $3\frac{7}{11} - 1\frac{8}{11} =$

1 mark

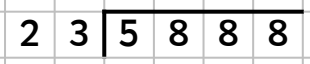
32 $\frac{3}{5} \div 6 =$

1 mark

33 $84{,}011 - 13{,}950 =$

1 mark

34



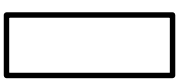
2 marks

35

18.1 – 3.9 =

1 mark

36

 + 1,520 = 2,500

1 mark

37

$$\begin{array}{r} 3542 \\ \times\ \ \ 35 \\ \hline \end{array}$$

2 marks

38

1,974 – 188 =

1 mark

39

$\frac{2}{5} \times \frac{1}{3} =$

1 mark

Arithmetic – Set 5 – Test 1

Content domain coverage

Question	Content domain reference	Question	Content domain reference
1	3N2b	21	6C7a
2	4C6b	22	6F9b
3	4N2b	23	5F10
4	5C6a	24	6C9
5	5C2	25	5C1
6	5C6a	26	6F9a
7	5C2	27	5F5
8	3C4/5C1	28	6C9
9	5C7b	29	6R2
10	6R2	30	5C2
11	5C6a	31	6F4
12	6F9a	32	6F5b
13	3C8/4C6a	33	5C2
14	4C7	34	6C7b
15	6F4	35	5F10
16	5C6a	36	3C4/5C1
17	5C2	37	6C7a
18	6F9a	38	4C2
19	4C7	39	6F5a
20	5F6a		

Arithmetic – Set 5 – Test 1

Mark scheme

Qu.	Requirement	Mark	Additional guidance
1	1,099	1m	
2	346	1m	
3	16,496	1m	
4	1,800	1m	
5	22,486	1m	
6	180	1m	
7	5,902	1m	
8	1,236	1m	
9	128	1m	
10	12	1m	Do not accept 12%
11	25,000	1m	
12	0.4	1m	
13	8	1m	
14	340	1m	
15	$\frac{28}{15}$ or $1\frac{13}{15}$	1m	Accept equivalent fractions or an exact decimal equivalent, e.g. 1.86666666
16	40	1m	
17	87,581	1m	
18	0.51	1m	
19	603	1m	
20	$\frac{40}{100}$ or $\frac{4}{10}$	1m	Accept equivalent fractions or an exact decimal equivalent, e.g. 0.4
21	Award TWO marks for the correct answer of 30,246 If the answer is incorrect, award ONE mark for a formal method of long multiplication with no more than ONE arithmetic error.	Up to 2m	Work must be carried through to reach a final answer for the award of ONE mark. DO NOT award any marks if the error is in the place value, e.g. the omission of the zero when multiplying by tens.
22	25.2	1m	
23	15.02	1m	

Arithmetic – Set 5 – Test 1

Mark scheme

Qu.	Requirement	Mark	Additional guidance
24	88	1m	
25	93,400	1m	
26	89	1m	
27	$\frac{44}{9}$ or $4\frac{8}{9}$		Accept equivalent fractions or an exact decimal equivalent, e.g. 4.88888889
28	45	1m	
29	32	1m	Do not accept 32%
30	19,363	1m	
31	$\frac{21}{11}$ or $1\frac{10}{11}$	1m	Accept equivalent fractions or an exact decimal equivalent, e.g. 1.9090909
32	$\frac{3}{30}$ or $\frac{1}{10}$	1m	Accept equivalent fractions or an exact decimal equivalent, e.g. 0.3
33	70,061	1m	
34	Award TWO marks for the correct answer of 256. If the answer is incorrect, award ONE mark for a formal method of division with no more than ONE arithmetic error.	Up to 2m	Work must be carried through to reach a final answer for the award of ONE mark.
35	14.2	1m	
36	980	1m	
37	Award TWO marks for the correct answer of 123,970. If the answer is incorrect, award ONE mark for a formal method of long multiplication with no more than ONE arithmetic error.	Up to 2m	Work must be carried through to reach a final answer for the award of ONE mark. DO NOT award any marks if the error is in the place value, e.g. the omission of the zero when multiplying by tens.
38	1,786	1m	

Mark scheme

Qu.	Requirement	Mark	Additional guidance
39	$\frac{2}{15}$	1m	Accept equivalent fractions or an exact decimal equivalent, e.g. 0.13333 (accept any unambiguous indication of the recurring decimal digit). DO NOT accept rounded or truncated decimals.

Arithmetic – Set 5 – Test 2

1

876 x 1 =

1 mark

2

3 x 2 x 0 =

1 mark

3

40 x 80 =

1 mark

4 500 – 75 =

1 mark

5 850 – ☐ = 540

1 mark

6 4,827 + 1,050 =

1 mark

7 $9 \div 100 =$

1 mark

8 $65{,}219 + 19{,}500 =$

1 mark

9 $425 \div 5 =$

1 mark

10 25% of 80 =

1 mark

11 172 + 1,990 =

1 mark

12 ☐ + 1,500 = 3,250

1 mark

13 40 x 400 =

1 mark

14 0.1 x 1,000 =

1 mark

15 14.6 + 3.25 =

1 mark

16 $1\frac{5}{9} - \frac{12}{18} =$

1 mark

17 $0.2 = \frac{\square}{\square}$

1 mark

18 13% of 200 =

1 mark

19 38,450 – 9,000 =

1 mark

20 ☐ ÷ 8 = 7

1 mark

21 350 x 5 =

1 mark

22 $36 \div 10 =$

1 mark

23 $3 \times 8 + 7 \times 2 =$

1 mark

24 $\frac{3}{4} \times \frac{1}{6} =$

1 mark

25 8,000 – 1,245 =

1 mark

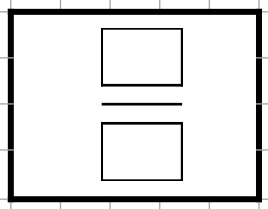
26 8.5 x 7 =

1 mark

27 12.4 ÷ 4 =

1 mark

28 $0.65 = \frac{\square}{\square}$



1 mark

29 $\frac{2}{7} \div 3 =$

1 mark

30 $42 + 12 \times 2 =$

1 mark

31

$$3\,6\overline{)1\,7\,2\,8}$$

2 marks

32

$$2\frac{1}{7} + 1\frac{3}{21} =$$

1 mark

33

$$\frac{2}{9} \times 3 =$$

1 mark

34 $8{,}000 \div 40 =$

1 mark

35

$$\begin{array}{r} 7461 \\ \times \quad\;\; 24 \\ \hline \end{array}$$

2 marks

36 $75{,}610 + 905 =$

1 mark

37 $18.3 - 2.7 =$

1 mark

38 $500 \div 50 =$

1 mark

39 $42 \overline{)2772}$

2 marks

Arithmetic – Set 5 – Test 2

Content domain coverage

Question	Content domain reference	Question	Content domain reference
1	4C6b	21	5C6a
2	4C6b	22	6F9a
3	5C6a	23	6C9
4	5C1	24	6F5a
5	3C4/5C1	25	4C2
6	5C1	26	6F9b
7	6F9a	27	6F9c
8	5C2	28	5F6a
9	5C7b	29	6F5b
10	6R2	30	6C9
11	4C2	31	6C7b
12	3C4/5C1	32	6F4
13	5C6a	33	5F5
14	6F9a	34	5C6a
15	5F10	35	6C7a
16	6F4	36	5C2
17	5F6a	37	5F10
18	6R2	38	5C6a
19	5C2	39	6C7b
20	3C8/4C6a		

Arithmetic – Set 5 – Test 2

Mark scheme

Qu.	Requirement	Mark	Additional guidance
1	876	1m	
2	0	1m	
3	3,200	1m	
4	425	1m	
5	310	1m	
6	5,877	1m	
7	0.09	1m	
8	84,719	1m	
9	85	1m	
10	20	1m	
11	2,162	1m	
12	1,750	1m	
13	16,000	1m	
14	100	1m	
15	17.85	1m	
16	$\frac{16}{18}$ or $\frac{8}{9}$	1m	Accept equivalent fractions or an exact decimal equivalent, e.g. 0.888888 (accept any unambiguous indication of the recurring decimal digit). DO NOT accept rounded or truncated decimals.
17	$\frac{2}{10}$ or $\frac{1}{5}$	1m	Accept equivalent fractions or an exact decimal equivalent, e.g. 0.2
18	26	1m	Do not accept 26%
19	29,450	1m	
20	56	1m	
21	1,750	1m	
22	3.6	1m	
23	38	1m	

Arithmetic – Set 5 – Test 2

Mark scheme

Qu.	Requirement	Mark	Additional guidance
24	$\frac{3}{24}$ or $\frac{1}{8}$	1m	Accept equivalent fractions or an exact decimal equivalent, e.g. $0.125\dot{}$
25	6,755	1m	
26	59.5	1m	
27	3.1	1m	
28	$\frac{65}{100}$	1m	
29	$\frac{2}{21}$	1m	Accept equivalent fractions or an exact decimal equivalent, e.g. 0.095238
30	66	1m	
31	Award TWO marks for the correct answer of 48. If the answer is incorrect, award ONE mark for a formal method of division with no more than ONE arithmetic error.	Up to 2m	Work must be carried through to reach a final answer for the award of ONE mark.
32	$\frac{69}{21}$ or $3\frac{6}{21}$	1m	Accept equivalent fractions or an exact decimal equivalent, e.g. 3.2857142
33	$\frac{6}{9}$ or $\frac{2}{3}$	1m	Accept equivalent fractions or an exact decimal equivalent, e.g. 0.666666 (accept any unambiguous indication of the recurring decimal digit). DO NOT accept rounded or truncated decimals.
34	200	1m	
35	Award TWO marks for the correct answer of 179,064. If the answer is incorrect, award ONE mark for a formal method of long multiplication with no more than ONE arithmetic error.	Up to 2m	Work must be carried through to reach a final answer for the award of ONE mark. DO NOT award any marks if the error is in the place value, e.g. the omission of the zero when multiplying by tens.

Arithmetic – Set 5 – Test 2

Mark scheme

Qu.	Requirement	Mark	Additional guidance
36	76,515	1m	
37	15.6	1m	
38	10	1m	
39	Award TWO marks for the correct answer of 66. If the answer is incorrect, award ONE mark for a formal method of division with no more than ONE arithmetic error.	Up to 2m	Work must be carried through to reach a final answer for the award of ONE mark.

Arithmetic – Set 5 – Test 3

1 $8,976 + 80 =$

1 mark

2 $132 \div 100 =$

1 mark

3 $87 \times 3 =$

1 mark

4 $17.3 + 9.6 =$

1 mark

5 $15\% \text{ of } 120 =$

1 mark

6 $7 + 3 \times 12 =$

1 mark

7 $6 \div 100 =$

1 mark

8 $0.03 = \frac{\square}{\square}$

1 mark

9 $6^3 =$

1 mark

10 54,216 + 1,936 =

1 mark

11 6.54 – 2.19 =

1 mark

12 360 ÷ 6 =

1 mark

13 $3{,}760 - 800 =$

1 mark

14 $3\frac{1}{14} - 1\frac{3}{7} =$

2 marks

15 $43{,}210 + 35{,}107 =$

1 mark

16 $\frac{1}{5}$ of 80 =

1 mark

17 ☐ x 12 = 108

2 marks

18 850 x 7 =

1 mark

19 $60 \times 70 =$

1 mark

20 $497 \div 7 =$

2 marks

21

$$\begin{array}{r} 6\,3\,7 \\ \times \quad 4\,2 \\ \hline \end{array}$$

2 marks

22 $3.45 \times 6 =$

1 mark

23 $74 + 9.8 =$

1 mark

24 $16.24 \div 4 =$

1 mark

25 ☐ + 3,940 = 7,000

1 mark

26 ☐ – 3,500 = 6,250

2 marks

27 35 – 2 x 7 =

1 mark

28 $\frac{3}{8} \div 2 =$

1 mark

29 $217 + 13.81 =$

1 mark

30 $12^2 - 120 =$

1 mark

31 $\frac{9}{15} - \frac{2}{5} =$

1 mark

32 365 x 4 =

1 mark

33 64% of 300 =

1 mark

34 0.009 x 100 =

1 mark

35

			5	2	0	9
x					2	8

2 marks

36 65,432 – 19,765 =

1 mark

37 $\frac{2}{7} \times \frac{1}{3} =$

1 mark

38 $0.91 = \frac{\square}{\square}$

1 mark

39 $14 \overline{)952}$

2 marks

Arithmetic – Set 5 – Test 3

Content domain coverage

Question	Content domain reference	Question	Content domain reference
1	4C2	21	6C7a
2	5C6b	22	6F9b
3	4C7	23	5F10
4	5F10	24	6F9c
5	6R2	25	3C4/5C1
6	6C9	26	3C4/5C1
7	5C6b	27	6C9
8	5F6a	28	6F5b
9	5C8a	29	5F10
10	5C2	30	5C8a/6C9
11	5F10	31	6F4
12	5C7b	32	4C7
13	4C2	33	6R2
14	6F4	34	5C6b
15	5C2	35	6C7a
16	3F1b	36	5C2
17	3C8/4C6a	37	6F5a
18	4C7	38	5F6a
19	5C6a	39	6C7b
20	5C7b		

Arithmetic – Set 5 – Test 3

Mark scheme

Qu.	Requirement	Mark	Additional guidance
1	9,056	1m	
2	1.32	1m	
3	261	1m	
4	26.9	1m	
5	18	1m	Do not accept 18%
6	43	1m	
7	0.06	1m	
8	$\frac{3}{100}$	1m	
9	216	1m	
10	56,152	1m	
11	4.35	1m	
12	60	1m	
13	2,960	1m	
14	$\frac{23}{14}$ or $1\frac{9}{14}$	1m	Accept equivalent fractions or an exact decimal equivalent, 1.6428571
15	78,317	1m	
16	16	1m	
17	9	1m	
18	5,950	1m	
19	4,200	1m	
20	71	1m	
21	Award TWO marks for the correct answer of 26,754. If the answer is incorrect, award ONE mark for a formal method of long multiplication with no more than ONE arithmetic error.	Up to 2m	Work must be carried through to reach a final answer for the award of ONE mark. DO NOT award any marks if the error is in the place value, e.g. the omission of the zero when multiplying by tens.
22	20.7	1m	

Arithmetic – Set 5 – Test 3

Mark scheme

Qu.	Requirement	Mark	Additional guidance
23	83.8	1m	
24	4.06	1m	
25	3,060	1m	
26	9,750	1m	
27	21	1m	
28	$\frac{3}{16}$	1m	Accept equivalent fractions or an exact decimal equivalent, 0.1875
29	230.81	1m	
30	24	1m	
31	$\frac{3}{15}$ or $\frac{1}{5}$	1m	Accept equivalent fractions or an exact decimal equivalent, 0.2
32	1,460	1m	
33	192	1m	Do not accept 192%
34	0.9	1m	
35	Award TWO marks for the correct answer of 145,852. If the answer is incorrect, award ONE mark for a formal method of long multiplication with no more than ONE arithmetic error.	Up to 2m	Work must be carried through to reach a final answer for the award of ONE mark. DO NOT award any marks if the error is in the place value, e.g. the omission of the zero when multiplying by tens.
36	45,667	1m	
37	$\frac{2}{21}$	1m	Accept equivalent fractions or an exact decimal equivalent, 0.095238
38	$\frac{91}{100}$	1m	
39	Award TWO marks for the correct answer of 68. If the answer is incorrect, award ONE mark for a formal method of division with no more than ONE arithmetic error.	Up to 2m	Work must be carried through to reach a final answer for the award of ONE mark.

Arithmetic – Set 5 – Test 4

1 $937 - 90 =$

1 mark

2 $65 \div 10 =$

1 mark

3 $92 \times 4 =$

1 mark

4 9,427 + 1,000 =

1 mark

5 5% of 160 =

1 mark

6 605 ÷ 5 =

1 mark

7 $174 \div 3 =$

1 mark

8 $0.8 \div 10 =$

1 mark

9 $2{,}784 - 900 =$

1 mark

10 $3.42 + 0.19 =$

1 mark

11 $30 \times 5 =$

1 mark

12 $14.8 - 1.3 =$

1 mark

13 1,300 – 250 =

1 mark

14 58,539 + 750 =

1 mark

15 13.2 + 7.9 =

1 mark

16 $6 \times 0 \times 4 =$

1 mark

17 $8.1 \div 100 =$

1 mark

18 $9000 - 19 =$

1 mark

19 $0.06 \times 1{,}000 =$

1 mark

20 $3\frac{1}{8} + 2\frac{1}{2} =$

1 mark

21 $0.75 = \frac{\square}{\square}$

1 mark

22 7,050 ÷ 1,000 =

1 mark

23

$$\begin{array}{r} 9\,3\,6 \\ \times\quad 6\,3 \\ \hline \end{array}$$

2 marks

24 26 + 4 x 2 =

1 mark

25 $810 \div 90 =$

1 mark

26 $5{,}496 + 12{,}400 =$

1 mark

27 $17{,}961 - 13{,}999 =$

1 mark

28 $1\frac{2}{5} \times 7 =$

1 mark

29 $\square \times 6 = 72$

1 mark

30 $\frac{6}{7} \div 2 =$

1 mark

31 $0.35 = \frac{\square}{\square}$

1 mark

32 $41 \overline{)3690}$

2 marks

33 32% of 220 =

1 mark

34 $\square$ – 1,595 = 8,460

1 mark

35 16.03 – 2.11 =

1 mark

36 $\frac{4}{9} \times \frac{2}{3} =$

1 mark

37 $700 \div 7 =$

1 mark

38 $1\frac{2}{7} \times 4 =$

1 mark

39 $23 \overline{)1495}$

2 marks

Arithmetic – Set 5 – Test 4

Content domain coverage

Question	Content domain reference	Question	Content domain reference
1	4C2/5C1	21	5F6a
2	5C6b	22	5C6b
3	4C7	23	6C7a
4	4N2b	24	6C9
5	6R2	25	5C7b
6	5C7b	26	5C2
7	5C7b	27	5C2
8	5C6b	28	5F5
9	5C1/4C2	29	3C8
10	5F10	30	6F5b
11	5C6a	31	5F6a
12	5F10	32	6C7b
13	4C2	33	6R2
14	5C2	34	3C4/5C2
15	5F10	35	5F10
16	4C6b	36	6F5a
17	5C6b	37	5C6a
18	4C2	38	5F5
19	5C6b	39	6C7b
20	6F4		

Arithmetic – Set 5 – Test 4

Mark scheme

Qu.	Requirement	Mark	Additional guidance
1	847	1m	
2	6.5	1m	
3	368	1m	
4	10,427	1m	
5	8	1m	Do not accept 8%
6	121	1m	
7	58	1m	
8	0.08	1m	
9	1,884	1m	
10	3.61	1m	
11	150	1m	
12	13.5	1m	
13	1,050	1m	
14	59,289	1m	
15	21.1	1m	
16	0	1m	
17	0.081	1m	
18	8,981	1m	
19	60	1m	
20	$\frac{45}{8}$ or $5\frac{5}{8}$	1m	Accept equivalent fractions or an exact decimal equivalent, 5.625
21	$\frac{75}{100}$ or $\frac{3}{4}$	1m	
22	7.05	1m	
23	Award TWO marks for the correct answer of 58,968 If the answer is incorrect, award ONE mark for a formal method of long multiplication with no more than ONE arithmetic error.	Up to 2m	Work must be carried through to reach a final answer for the award of ONE mark. DO NOT award any marks if the error is in the place value, e.g. the omission of the zero when multiplying by tens.

Arithmetic – Set 5 – Test 4

Mark scheme

Qu.	Requirement	Mark	Additional guidance
24	34	1m	
25	9	1m	
26	17,896	1m	
27	3,962	1m	
28	$\frac{49}{5}$ or $5\frac{4}{5}$	1m	Accept equivalent fractions or an exact decimal equivalent, 9.8
29	12	1m	
30	$\frac{6}{14}$ or $\frac{3}{7}$	1m	Accept equivalent fractions or an exact decimal equivalent, 0.4285714
31	$\frac{35}{100}$ or $\frac{7}{20}$	1m	
32	Award TWO marks for the correct answer of 90. If the answer is incorrect, award ONE mark for a formal method of division with no more than ONE arithmetic error.	Up to 2m	Work must be carried through to reach a final answer for the award of ONE mark.
33	70.4	1m	Do not accept 70.4%
34	10,055	1m	
35	13.92	1m	
36	$\frac{8}{27}$	1m	Accept equivalent fractions or an exact decimal equivalent, 0.2962962
37	100		
38	$5\frac{1}{7}$ or $\frac{36}{7}$	1m	Accept equivalent fractions or an exact decimal equivalent, 5.1428571
39	Award TWO marks for the correct answer of 65. If the answer is incorrect, award ONE mark for a formal method of division with no more than ONE arithmetic error.	Up to 2m	Work must be carried through to reach a final answer for the award of ONE mark.

Arithmetic – Set 5 – Test 5

1

9,476 – 500 =

1 mark

2

819 x 0 =

1 mark

3

6.13 x 100 =

1 mark

4 $901 \div 1{,}000 =$

1 mark

5 $4{,}367 - 1{,}450 =$

1 mark

6 $421 + 59 =$

1 mark

7 23% of 120 =

1 mark

8 7,650 – ☐ = 5,000

1 mark

9 $\frac{2}{3}$ of 66 =

1 mark

10 $526 \times 6 =$

1 mark

11 $(8 \times 3) - 2^2 =$

1 mark

12 $39.2 \div 4 =$

1 mark

13 $7 \times 2 \times 5 =$

1 mark

14 $0.45 = \frac{\square}{\square}$

1 mark

15 $650 + \square = 1{,}300$

1 mark

16 398 – 39 =

1 mark

17 ☐ = 1,469 + 3,565

1 mark

18 93,426 – 27,847 =

1 mark

19

83,346 – 2,659 =

1 mark

20

463 x 8 =

1 mark

21

$$\begin{array}{r} 5\,3\,6\,7 \\ \times\quad\quad 3\,6 \\ \hline \end{array}$$

2 marks

22 $3{,}200 \div 80 =$

1 mark

23 $132 \div \square = 12$

1 mark

24 $1\frac{1}{5} - \frac{9}{10} =$

1 mark

25 $600 + 900 + 700 =$

1 mark

26 $4.72 - 1.9 =$

1 mark

27 $790 \div 100 =$

1 mark

28 $4.199 + 2.001 =$

1 mark

29 $\frac{4}{9} \div 2 =$

1 mark

30 4% of 150 =

1 mark

31 $2\frac{1}{8} - 1\frac{3}{4} =$

1 mark

32 343,950 – 18,420 =

1 mark

33 8 – 3.2 =

1 mark

34 $\frac{1}{9} \times \frac{2}{3} =$

1 mark

35

$$\begin{array}{r} 8\,9\,3\,2 \\ \times \quad\;\; 7\,4 \\ \hline \end{array}$$

2 marks

36 $12 \times 7.4 =$

1 mark

37 $3\frac{2}{5} \times 5 =$

1 mark

38 $90 - 72 \div 8 =$

1 mark

39 $2\,2\overline{)1\,6\,5\,0}$

2 marks

Arithmetic – Set 5 – Test 5

Content domain coverage

Question	Content domain reference	Question	Content domain reference
1	4C2	21	6C7a
2	4C6b	22	5C6a
3	5C6b	23	3C8/4C6a
4	5C6b	24	6F4
5	4C2	25	5C1
6	4C2	26	5F10
7	6R2	27	5C6b
8	3C4/4C2	28	5F10
9	3F1b	29	6F5b
10	4C7	30	6R2
11	6C9	31	6F4
12	6F9c	32	5C2
13	4C6b	33	5F10
14	5F6a	34	6F5a
15	3C4/5C1	35	6C7a
16	4C2	36	6F9b
17	4C2	37	5F5
18	5C2	38	6C9
19	5C2	39	6C7b
20	4C7		

Arithmetic – Set 5 – Test 5

Mark scheme

Qu.	Requirement	Mark	Additional guidance
1	8,976	1m	
2	0	1m	
3	613	1m	
4	0.901	1m	
5	2,917	1m	
6	480	1m	
7	27.6	1m	Do not accept 27.6%
8	2,650	1m	
9	44	1m	
10	3,156	1m	
11	20	1m	
12	9.8	1m	
13	70	1m	
14	$\frac{45}{100}$ or $\frac{9}{20}$	1m	
15	650	1m	
16	359	1m	
17	5,034	1m	
18	65,579	1m	
19	80,687	1m	
20	3,704	1m	
21	Award TWO marks for the correct answer of 193,212 If the answer is incorrect, award ONE mark for a formal method of long multiplication with no more than ONE arithmetic error.	Up to 2m	Work must be carried through to reach a final answer for the award of ONE mark. DO NOT award any marks if the error is in the place value, e.g. the omission of the zero when multiplying by tens.
22	40	1m	
23	11	1m	

Arithmetic – Set 5 – Test 5

Mark scheme

Qu.	Requirement	Mark	Additional guidance
24	$\frac{3}{10}$	1m	Accept equivalent fractions or an exact decimal equivalent, 0.3
25	2,200	1m	
26	2.82	1m	
27	7.9	1m	
28	6.2	1m	
29	$\frac{4}{18}$ or $\frac{2}{9}$	1m	Accept equivalent fractions or an exact decimal equivalent, e.g. 0.2222222 (accept any unambiguous indication of the recurring decimal digit). DO NOT accept rounded or truncated decimals.
30	6	1m	Do not accept 6%
31	$\frac{3}{8}$	1m	Accept equivalent fractions or an exact decimal equivalent, 0.375
32	325,530	1m	
33	4.8	1m	
34	$\frac{2}{27}$	1m	Accept equivalent fractions or an exact decimal equivalent, 0.074074
35	Award TWO marks for the correct answer of 660,968. If the answer is incorrect, award ONE mark for a formal method of long multiplication with no more than ONE arithmetic error.	Up to 2m	Work must be carried through to reach a final answer for the award of ONE mark. DO NOT award any marks if the error is in the place value, e.g. the omission of the zero when multiplying by tens.
36	88.8	1m	
37	$\frac{85}{5}$	1m	Accept equivalent fractions or exact whole number, 17.
38	81	1m	

Mark scheme

Qu.	Requirement	Mark	Additional guidance
37	Award TWO marks for the correct answer of 75. If the answer is incorrect, award ONE mark for a formal method of division with no more than ONE arithmetic error.	Up to 2m	Work must be carried through to reach a final answer for the award of ONE mark.

1

30,100 – 1,000 =

1 mark

2

74 ÷ 100 =

1 mark

3

0.34 x 1,000 =

1 mark

4 89 + 496 =

1 mark

5 276 x 3 =

1 mark

6 35,781 + 19,436 =

1 mark

7 72,640 – 9,467 =

1 mark

8 75% of 48 =

1 mark

9 ☐ x 12 = 132

1 mark

10 $1\frac{7}{10} - \frac{2}{5} =$

1 mark

11 $\square + 945 = 1{,}200$

1 mark

12 $\square - 3{,}642 = 4{,}010$

1 mark

13 $13 \times 2.7 =$

1 mark

14 $600 \div 8 =$

1 mark

15 $\frac{3}{4}$ of 88 =

1 mark

16 $5{,}400 + \square = 6{,}200$

1 mark

17 $400 \times 70 =$

1 mark

18 $87 + (10 \div 2) =$

1 mark

19 $\frac{2}{5} + \frac{3}{4} =$

1 mark

20 84 + 990 =

1 mark

21 490 ÷ 70 =

1 mark

22 $2.002 + 3.89 =$

1 mark

23

$$\begin{array}{r} 96 \\ \times\ 39 \\ \hline \end{array}$$

2 marks

24 $100 \times 37 =$

1 mark

25 $84{,}900 - 27{,}000 =$

1 mark

26 $\frac{3}{7} \div 4 =$

1 mark

27 $65 \times 4 =$

1 mark

28 $1\frac{4}{5} + 1\frac{1}{15} =$

1 mark

29 $3 - 1.25 =$

1 mark

30 $137.6 - 93.7 =$

1 mark

31 15% of 90 =

1 mark

32 6.42 + 18.361 =

1 mark

33 60 x 9 =

1 mark

34 $\frac{7}{8} \times 2 =$

1 mark

35 $275 \div 5 =$

1 mark

36 $9{,}764 - 8{,}874 =$

1 mark

37

$$\begin{array}{r} 3652 \\ \times \quad 66 \\ \hline \end{array}$$

2 marks

38

$$19\overline{)7411}$$

2 marks

39

$25 - 9 \div 3 =$

1 mark

Arithmetic – Set 5 – Test 6

Content domain coverage

Question	Content domain reference	Question	Content domain reference
1	4N2b	21	5C6a
2	5C6b	22	5F10
3	5C6b	23	6C7a
4	4C2	24	5C6b
5	4C7	25	5C2
6	5C2	26	6F5b
7	5C2	27	4C7
8	6R2	28	5F4
9	3C8/4C6a	29	5F10
10	6F4	30	5F10
11	3C4/4C2	31	6R2
12	3C4/4C2	32	5F10
13	6F9b	33	5C6a
14	5C6b	34	5F5
15	3F1b	35	5C7b
16	3C4/5C1	36	4C2
17	5C6a	37	6C7a
18	6C9	38	6C7b
19	6F4	39	6C9
20	4C2		

Arithmetic – Set 5 – Test 6

Mark scheme

Qu.	Requirement	Mark	Additional guidance
1	29,100	1m	
2	0.74	1m	
3	340	1m	
4	585	1m	
5	828	1m	
6	55,217	1m	
7	63,173	1m	
8	36	1m	Do not accept 36%
9	11	1m	
10	$\frac{13}{10}$ or $1\frac{3}{10}$	1m	Accept equivalent fractions or an exact decimal equivalent, 1.3
11	255	1m	
12	7,652	1m	
13	35.1	1m	
14	75	1m	
15	66	1m	
16	800	1m	
17	28,000	1m	
18	92	1m	
19	$\frac{23}{20}$ or $1\frac{3}{20}$	1m	Accept equivalent fractions or an exact decimal equivalent, 1.15
20	1.074	1m	
21	7	1m	
22	5.892	1m	
23	Award TWO marks for the correct answer of 3,744. If the answer is incorrect, award ONE mark for a formal method of long multiplication with no more than ONE arithmetic error.	Up to 2m	Work must be carried through to reach a final answer for the award of ONE mark. DO NOT award any marks if the error is in the place value, e.g. the omission of the zero when multiplying by tens.

Arithmetic – Set 5 – Test 6

Mark scheme

Qu.	Requirement	Mark	Additional guidance
24	3,700	1m	
25	57,900	1m	
26	$\frac{3}{28}$	1m	Accept equivalent fractions or an exact decimal equivalent, 0.1071428
27	260	1m	
28	$\frac{43}{15}$ or $2\frac{13}{15}$	1m	Accept equivalent fractions or an exact decimal equivalent, e.g. 2.8666666 (accept any unambiguous indication of the recurring decimal digit). DO NOT accept rounded or truncated decimals.
29	1.75	1m	
30	43.9	1m	
31	13.5	1m	Do not accept 13.5%
32	24.781	1m	
33	540	1m	
34	$\frac{14}{8}$ or $1\frac{3}{4}$	1m	Accept equivalent fractions or an exact decimal equivalent, 1.75
35	55	1m	
36	890	1m	
37	Award TWO marks for the correct answer of 241,032. If the answer is incorrect, award ONE mark for a formal method of long multiplication with no more than ONE arithmetic error.	Up to 2m	Work must be carried through to reach a final answer for the award of ONE mark. DO NOT award any marks if the error is in the place value, e.g. the omission of the zero when multiplying by tens.

Arithmetic – Set 5 – Test 6

Mark scheme

Qu.	Requirement	Mark	Additional guidance
38	Award TWO marks for the correct answer of 39. If the answer is incorrect, award ONE mark for a formal method of division with no more than ONE arithmetic error.	Up to 2m	Work must be carried through to reach a final answer for the award of ONE mark.
39	22	1m	