

About this Resource:

A set of 6 arithmetic tests for Year 6 Summer 2, building on prior mathematical knowledge.

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](#)

National Curriculum Objectives (cont.):

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, $1/4 \times 1/2 = 1/8$]

Mathematics Year 6: (6F5b) Divide proper fractions by whole numbers [for example, $1/3 \div 2 = 1/6$]

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 Year 6 arithmetic objectives. 39 questions. Aimed at Year 6 Secure (week 31).

Easy Covering all Year 6 arithmetic objectives. 39 questions. Aimed at Year 6 Secure (week 32).

Tricky Covering all Year 6 arithmetic objectives. 39 questions. Aimed at Year 6 Secure (week 33).

Expert Covering all Year 6 arithmetic objectives. 39 questions. Aimed at Year 6 Secure (week 34).

Brainbox Covering all Year 6 arithmetic objectives. 39 questions. Aimed at Year 6 Secure (week 35).

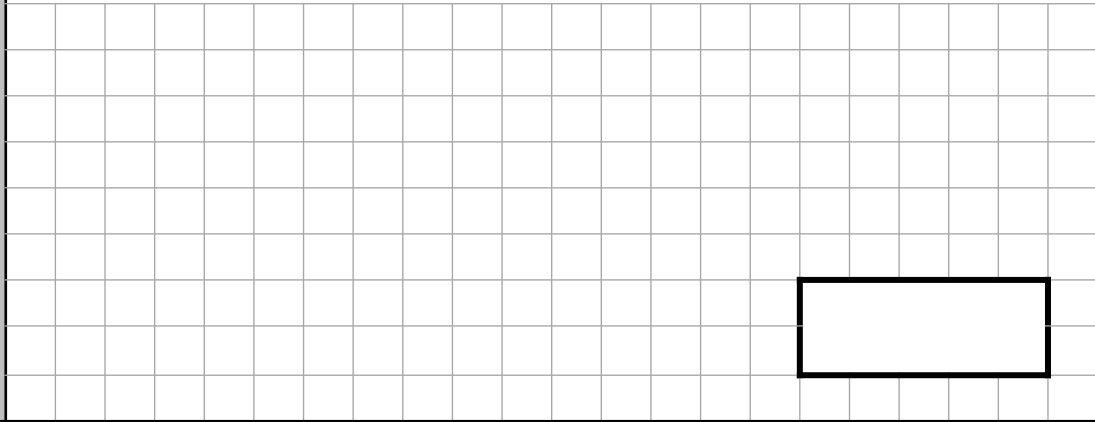
Genius Covering all Year 6 arithmetic objectives. 39 questions. Aimed at Year 6 Secure (week 36).

More [Arithmetic](#) Resources.

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

1


$$1,909 + 100 =$$



1 mark

2

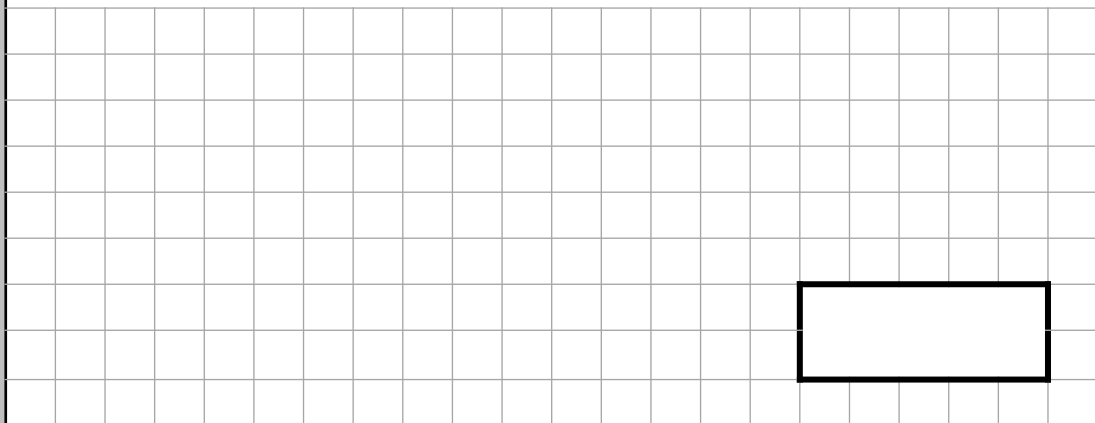
$$234 \div 1 =$$



1 mark

3

$$9,101 - 1,000 =$$



1 mark

4

$$30 \times 120 =$$



1 mark

5

$$7,453 + 20,145 =$$



1 mark

6

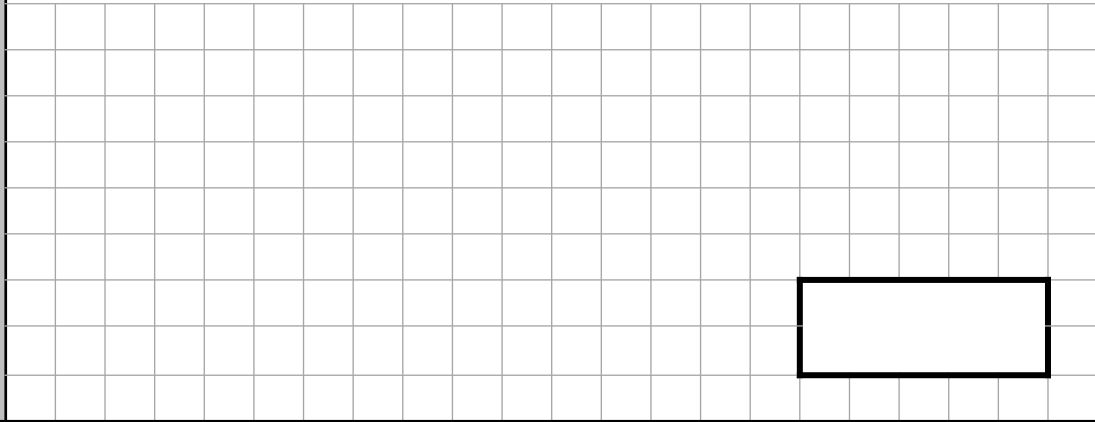
$$0.8 \times 100 =$$



1 mark

7


$$25,890 - 8,590 =$$



1 mark

8

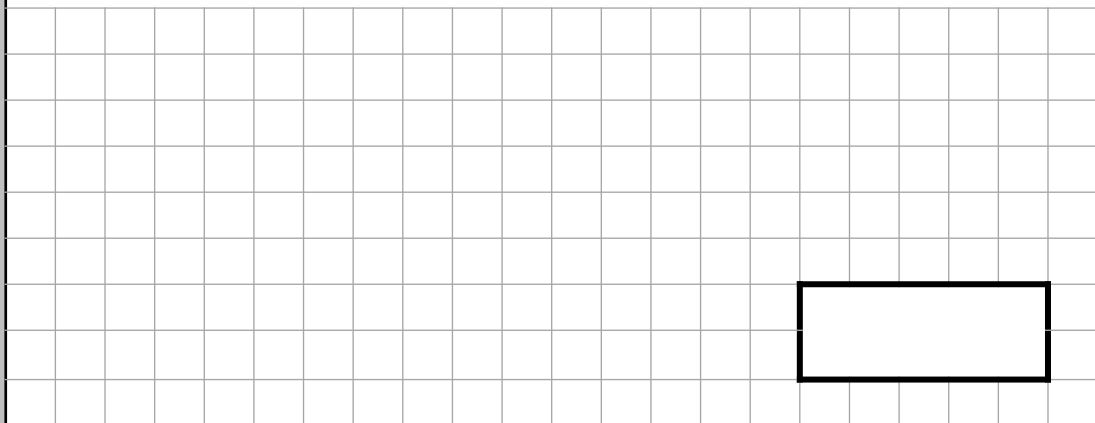
$$\square - 650 = 1,670$$



1 mark

9

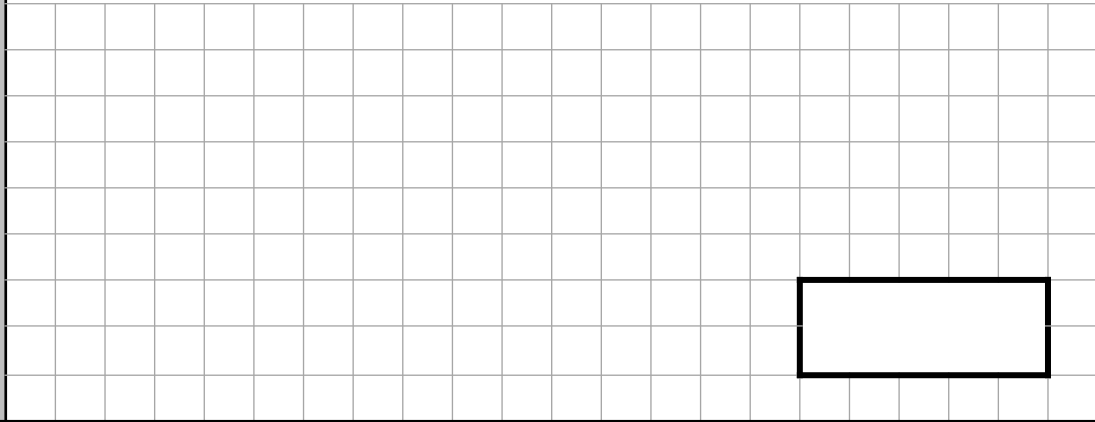
$$784 \div 2 =$$



1 mark

10

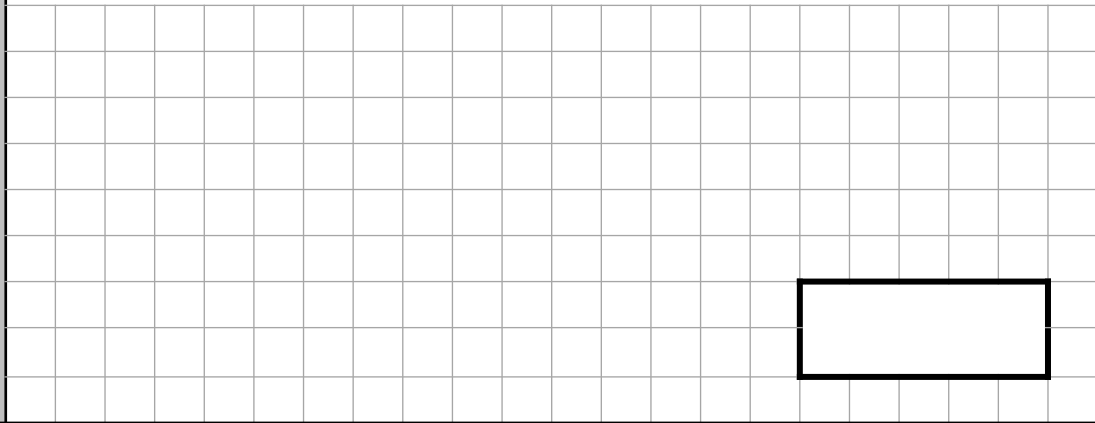
$70\% \text{ of } 80 =$



1 mark

11

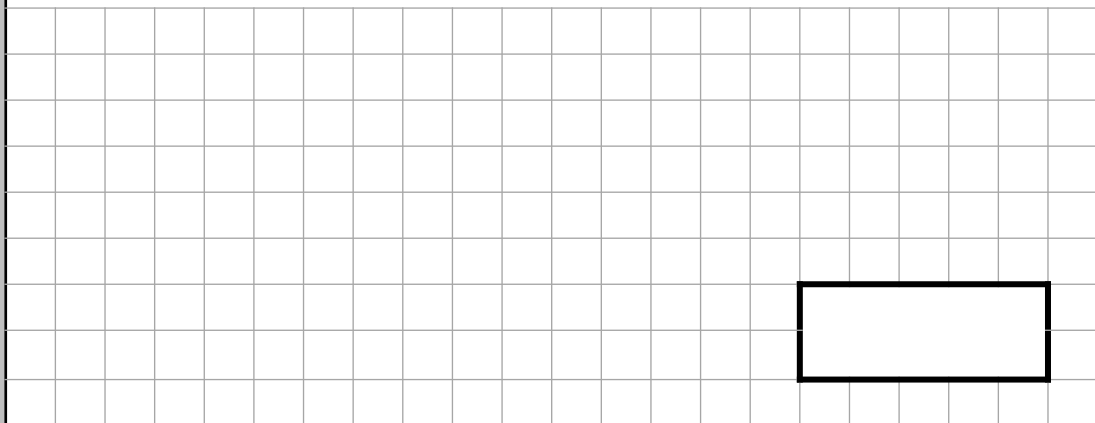
$20 \times 700 =$



1 mark

12

$98 \div 100 =$



1 mark

13

$$\boxed{} \times 70 = 350$$



1 mark

14

$$43 \times 9 =$$



1 mark

15

$$2\frac{2}{3} + \frac{5}{12} =$$



1 mark

16

$$3,200 \div 4 =$$



1 mark

17

$$65,980 + 4,721 =$$



1 mark

18

$$3 \div 100 =$$



1 mark

19

$$36 \times 8 =$$



1 mark

20

$$0.28 = \frac{\square}{\square}$$



1 mark

21

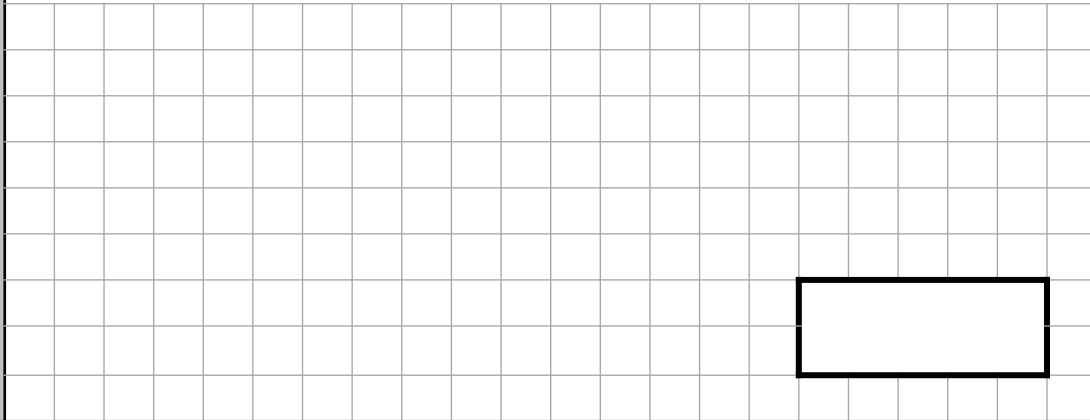
	3	7	5
x		6	8



2 marks

22

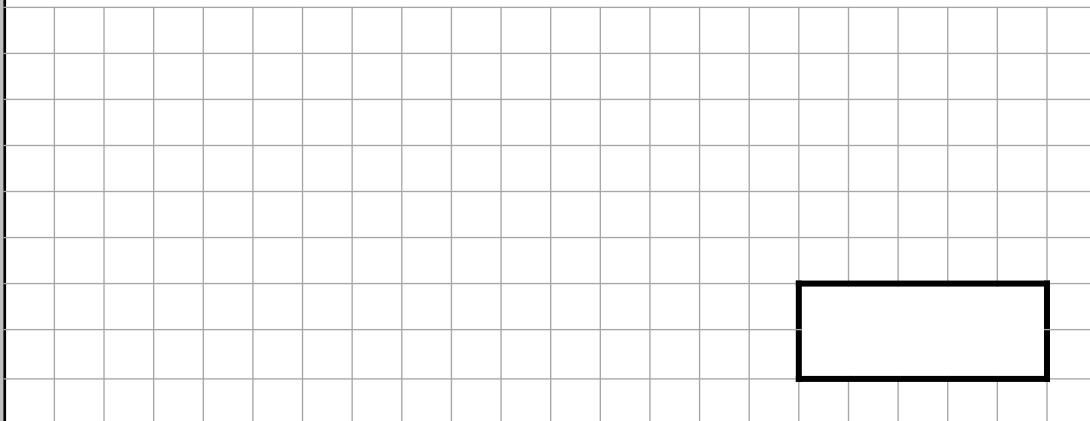
$$7.4 \times 5 =$$



1 mark

23

$$4.1 + 54.76 =$$



1 mark

24

$$54 + 16 \div 8 =$$



1 mark

25

$$34,000 - 8,000 =$$



1 mark

26

$$0.98 \times 100 =$$



1 mark

27

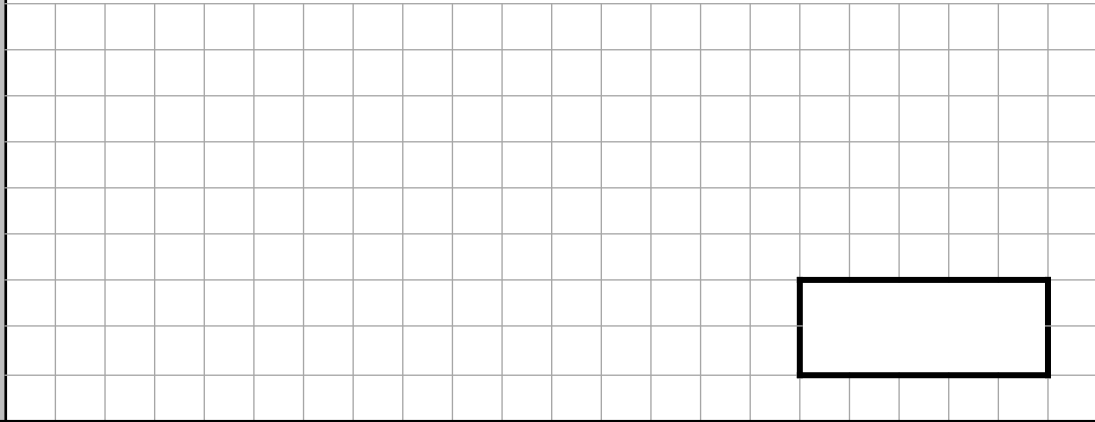
$$2\frac{1}{2} \times 6 =$$



1 mark

28

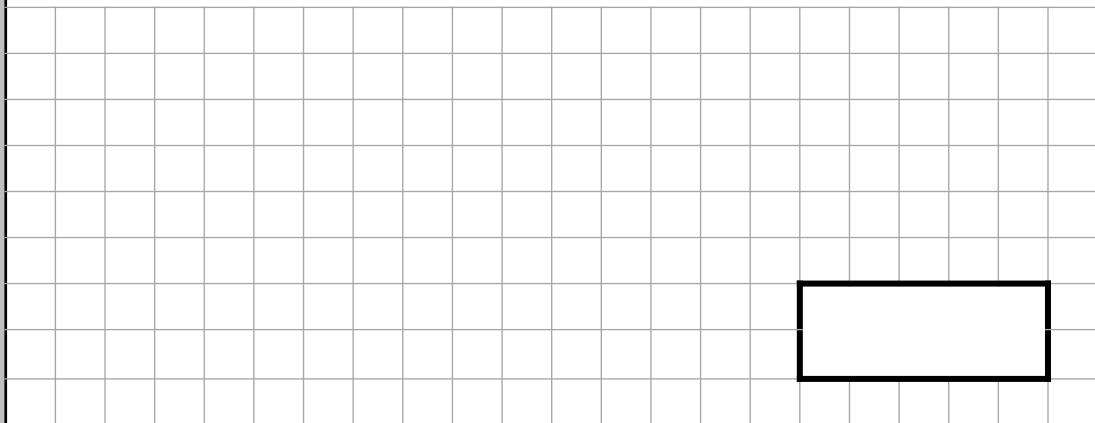
$$83 - 4 \times 7 =$$



1 mark

29

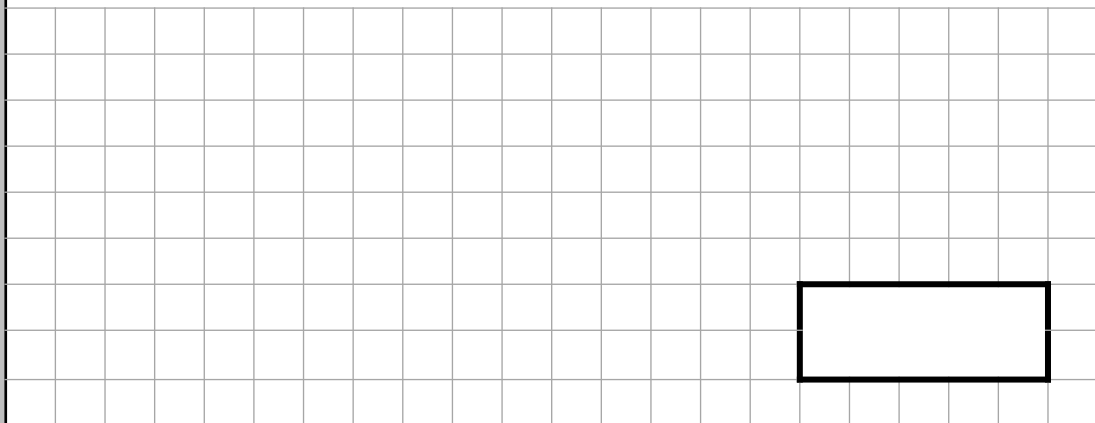
$$6\% \text{ of } 200 =$$



1 mark

30

$$780 + 21,765 =$$



1 mark

31

$$2\frac{3}{9} - 1\frac{9}{18} =$$



1 mark

32

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



1 mark

33

$$76,903 - 27,843 =$$



1 mark

34

2 6 | 1 5 0 8



2 marks

35

$$23.3 - 4.5 =$$



1 mark

36

$$\boxed{} + 4,985 = 6,900$$



1 mark

37

$$\begin{array}{r} 7\ 5\ 3\ 1 \\ \times \quad\quad 5\ 9 \\ \hline \end{array}$$



2 marks

38

$$3,987 - 348 =$$



1 mark

39

$$\frac{3}{4} \times \frac{1}{7} =$$



1 mark

Arithmetic – Set 6 – 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 6 – Test 1

Mark scheme

Qu.	Requirement	Mark	Additional guidance
1	2,009	1m	
2	234	1m	
3	8,101	1m	
4	3,600	1m	
5	27,598	1m	
6	80	1m	
7	17,300	1m	
8	2,320	1m	
9	392	1m	
10	56	1m	Do not accept 56%
11	14,000	1m	
12	0.98	1m	
13	5	1m	
14	387	1m	
15	$\frac{37}{12}$ or $3\frac{1}{12}$	1m	Accept equivalent fractions.
16	800	1m	
17	70,701	1m	
18	0.03	1m	
19	288	1m	
20	$\frac{28}{100}$	1m	Accept equivalent fractions.
21	<p>Award TWO marks for the correct answer of 25,500</p> <p>If the answer is incorrect, award ONE mark for a formal method of long multiplication with no more than ONE arithmetic error.</p>	Up to 2m	<p>Work must be carried through to reach a final answer for the award of ONE mark.</p> <p>DO NOT award any marks if the error is in the place value, e.g. the omission of the zero when multiplying by tens.</p>
22	37	1m	
23	58.86	1m	

Mark scheme

Qu.	Requirement	Mark	Additional guidance
24	56	1m	
25	26,000	1m	
26	98	1m	
27	$\frac{30}{2}$ or 15		Accept equivalent fractions.
28	55	1m	
29	12	1m	Do not accept 12%
30	22,545	1m	
31	$\frac{15}{18}$ or $\frac{5}{6}$	1m	Accept equivalent fractions or an <u>exact</u> decimal equivalent, e.g. 0.83333333
32	$\frac{2}{6}$ or $\frac{1}{3}$	1m	Accept equivalent fractions or an <u>exact</u> decimal equivalent, e.g. 0.33333333
33	49,060	1m	
34	Award TWO marks for the correct answer of 58 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	18.8	1m	
36	1,915	1m	
37	Award TWO marks for the correct answer of 444,329 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	3,639	1m	

Arithmetic – Set 6 – Test 1

Mark scheme

Qu.	Requirement	Mark	Additional guidance
39	$\frac{3}{28}$	1m	Accept equivalent fractions or an <u>exact</u> decimal equivalent, e.g. 0.1071428

1

$555 \times 1 =$



1 mark

2

$3 \times 0 \times 7 =$



1 mark

3

$90 \times 7 =$



1 mark

4

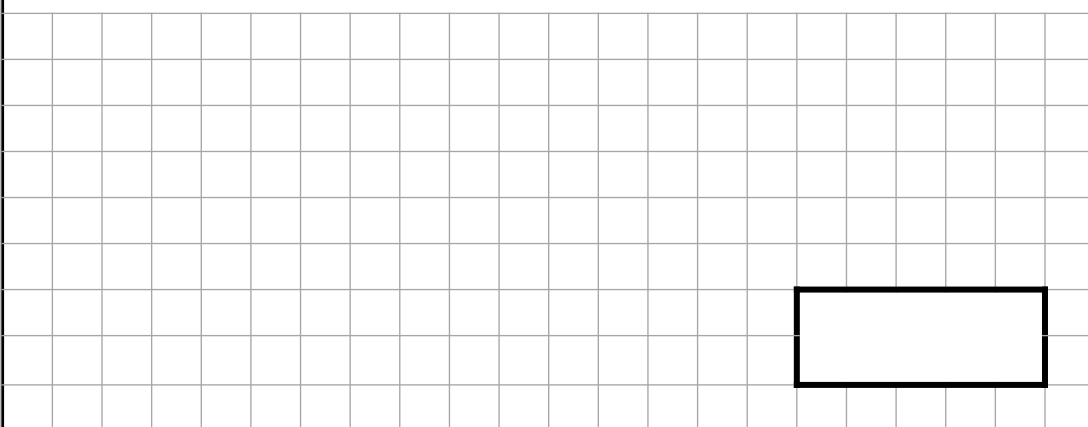
$$350 - 85 =$$



1 mark

5

$$832 - \boxed{} = 150$$



1 mark

6

$$5,982 + 2,950 =$$



1 mark

7

$$1 \div 1,000 =$$



1 mark

8

$$67,912 + 23,790 =$$



1 mark

9

$$565 \div 5 =$$



1 mark

10

$75\% \text{ of } 700 =$



1 mark

11

$875 + 2,909 =$



1 mark

12

$\square + 1,850 = 5,700$



1 mark

13

$$30 \times 600 =$$



1 mark

14

$$0.6 \times \boxed{} = 600$$



1 mark

15

$$45.9 + 2.12 =$$



1 mark

16

$$1 \frac{6}{7} - \frac{3}{14} =$$



1 mark

17

$$0.08 = \frac{\square}{\square}$$

□
—
□



1 mark

18


$$15\% \text{ of } 90 =$$



1 mark

19

$$43,865 - 1,500 =$$



1 mark

20

$$\square \div 60 = 7$$



1 mark

21

$$754 \times 6 =$$



1 mark

22

$$798 \div 10 =$$



1 mark

23

$$2 \times 7 + 8 \times 1 =$$



1 mark

24

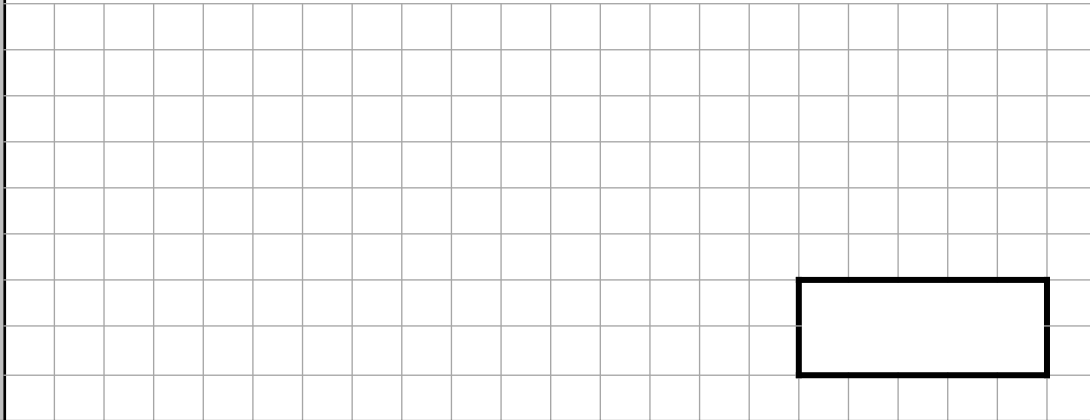
$$\frac{2}{5} \times \frac{1}{6} =$$



1 mark

25

$$10,000 - 7,535 =$$



1 mark

26

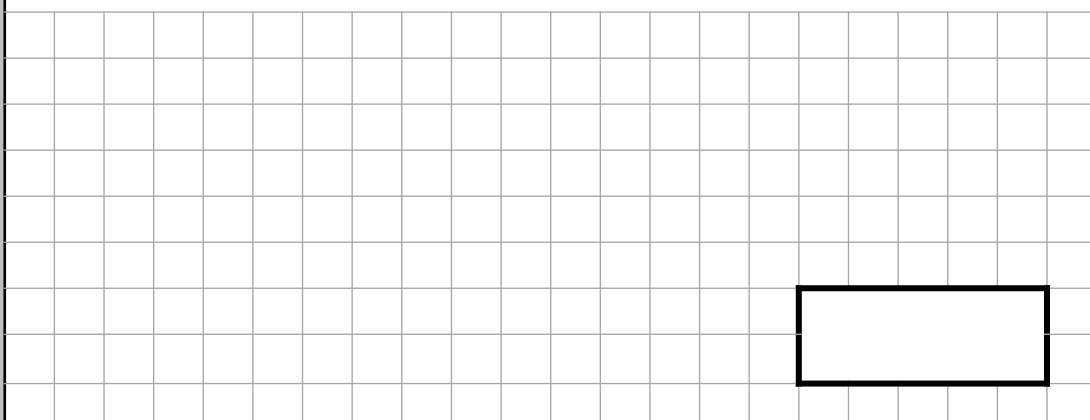
$$6.9 \times 9 =$$



1 mark

27

$$36.9 \div 9 =$$



1 mark

28

$$0.85 = \frac{\square}{\square}$$

$$\frac{\square}{\square}$$



1 mark

29

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

$$\square$$



1 mark

30

$$(56 - 6) \times 2 =$$

$$\square$$



1 mark

31

4 2 3 9 9 0



2 marks

32

$$1\frac{2}{5} + 2\frac{3}{10} =$$



1 mark

33

$$\frac{6}{7} \times 3 =$$



1 mark

34

$$4,200 \div 70 =$$



1 mark

35

$$\begin{array}{r} 4 \ 3 \ 2 \ 8 \\ x 5 \ 6 \\ \hline \end{array}$$



2 marks

36

$$98,012 + 997 =$$



1 mark

37

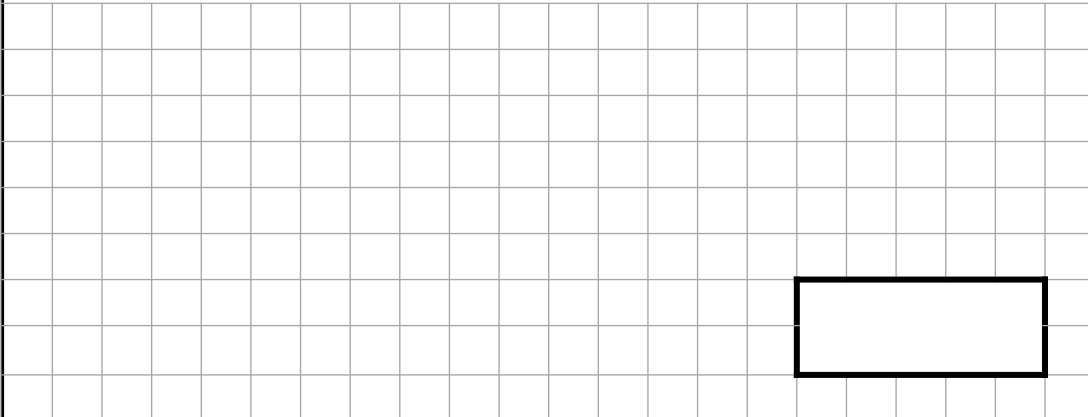
$$76 - 8.2 =$$



1 mark

38

$$120 \div 6 =$$



1 mark

39

2 3 | 1 4 9 5



2 marks

Arithmetic – Set 6 – 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 6 – Test 2

Mark scheme

Qu.	Requirement	Mark	Additional guidance
1	555	1m	
2	0	1m	
3	630	1m	
4	265	1m	
5	682	1m	
6	8,932	1m	
7	0.001	1m	
8	91,702	1m	
9	113	1m	
10	525	1m	
11	3,784	1m	
12	3,850	1m	
13	18,000	1m	
14	1,000	1m	
15	48.02	1m	
16	$\frac{23}{14}$ or $1\frac{9}{14}$	1m	Accept equivalent fractions or an <u>exact</u> decimal equivalent, e.g. 1.6428571
17	$\frac{8}{100}$	1m	Accept equivalent fractions.
18	13.5	1m	Do not accept 13.5%
19	42,365	1m	
20	420	1m	
21	4,524	1m	
22	79.8	1m	
23	22	1m	

Arithmetic – Set 6 – Test 2

Mark scheme

Qu.	Requirement	Mark	Additional guidance
24	$\frac{2}{30}$ or $\frac{1}{15}$	1m	Accept equivalent fractions or an <u>exact</u> decimal equivalent, e.g. $0.6\overline{6}$ (accept any unambiguous indication of the recurring decimal digit). DO NOT accept rounded or truncated decimals.
25	2,465	1m	
26	62.1	1m	
27	4.1	1m	
28	$\frac{85}{100}$	1m	Accept equivalent fractions.
29	$\frac{5}{36}$	1m	Accept equivalent fractions or an <u>exact</u> decimal equivalent, e.g. 0.13888888
30	100	1m	
31	Award TWO marks for the correct answer of 95 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	$\frac{37}{10}$ or $3\frac{7}{10}$	1m	Accept equivalent fractions or an <u>exact</u> decimal equivalent, e.g. 3.7
33	$\frac{18}{7}$ or $2\frac{4}{7}$	1m	Accept equivalent fractions or an <u>exact</u> decimal equivalent, e.g. 2.5714285
34	60	1m	
35	Award TWO marks for the correct answer of 242,368 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 6 – Test 2

Mark scheme

Qu.	Requirement	Mark	Additional guidance
36	99,009	1m	
37	67.8	1m	
38	20	1m	
39	<p>Award TWO marks for the correct answer of 65</p> <p>If the answer is incorrect, award ONE mark for a formal method of division with no more than ONE arithmetic error.</p>	Up to 2m	Work must be carried through to reach a final answer for the award of ONE mark.

1

$$8,543 + 90 =$$



1 mark

2

$$765 \div 100 =$$



1 mark

3

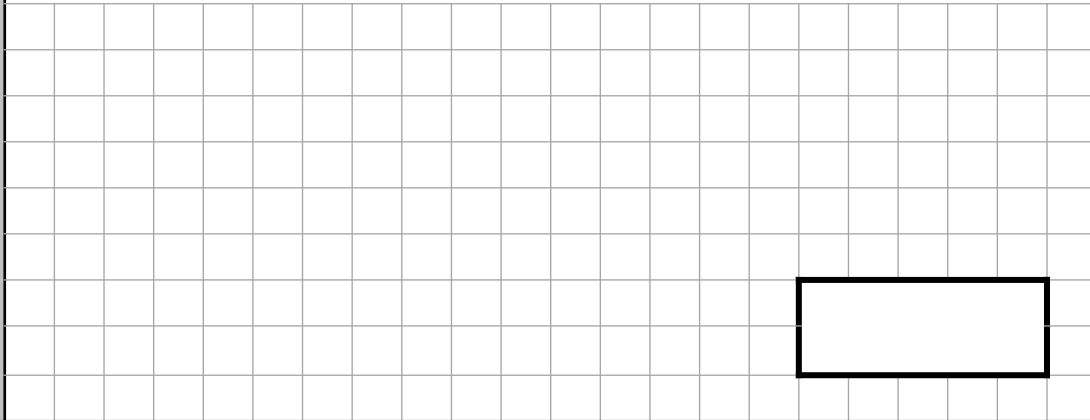
$$77 \times 3 =$$



1 mark

4

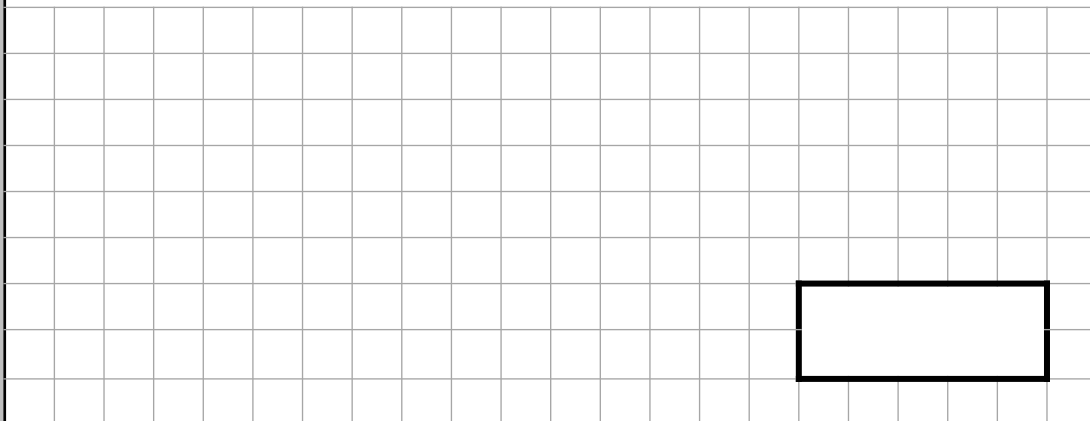
$$54.9 + 4.4 =$$



1 mark

5

$$22\% \text{ of } 300 =$$



1 mark

6

$$7 + 5 \times 3 =$$



1 mark

7

$$33 \div 1,000 =$$



1 mark

8

$$0.07 = \frac{\square}{\square}$$



1 mark

9

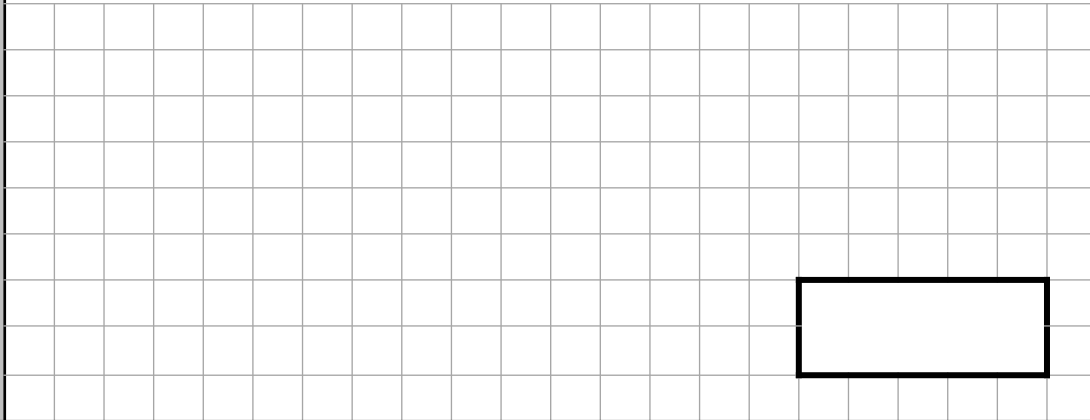
$$7^3 =$$



1 mark

10

$$80,984 + 6,754 =$$



1 mark

11

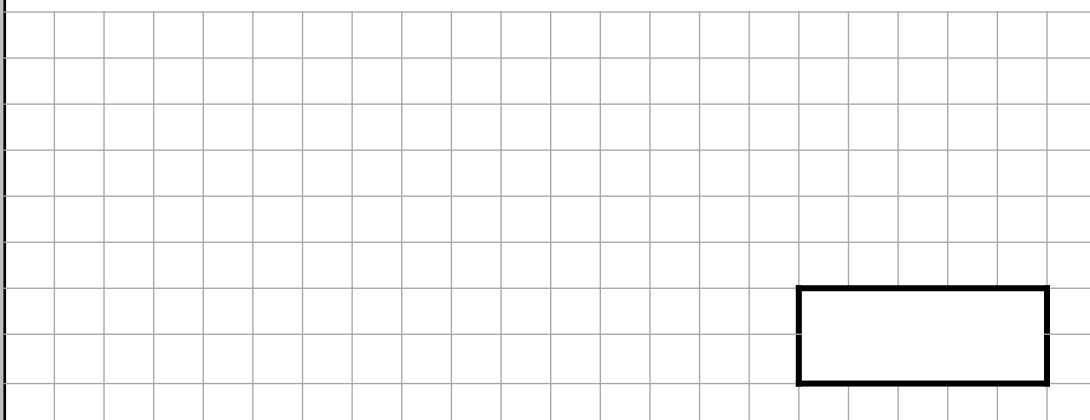
$$3.3 - 1.97 =$$



1 mark

12

$$810 \div 90 =$$



1 mark

13

$$18,950 - 975 =$$



1 mark

14

$$2\frac{2}{21} - 1\frac{2}{7} =$$



2 marks

15

$$56,987 + 33,765 =$$



1 mark

16

$$\frac{3}{5} \text{ of } 90 =$$



1 mark

17

$$\boxed{} \times 11 = 121$$



2 marks

18

$$930 \times 6 =$$



1 mark

22

$$9.87 \times 4 =$$



1 mark

23

$$102 + 3.76 =$$



1 mark

24

$$36.45 \div 5 =$$



1 mark

25

$$\boxed{} + 18,092 = 19,000$$



1 mark

26

$$\boxed{} - 6,250 = 5,500$$



2 marks

27

$$(12 - 5) \times 7 =$$



1 mark

28

$$\frac{2}{5} \div 4 =$$



1 mark

29

$$567 + 17.9 =$$



1 mark

30

$$5^3 - 36 =$$



1 mark

31

$$\frac{6}{7} - \frac{3}{6} =$$



1 mark

32

$$278 \times 9 =$$



1 mark

33

$$70\% \text{ of } 45 =$$



1 mark

37

$$\frac{8}{9} \times \frac{3}{5} =$$



1 mark

38

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



1 mark

39

3 4 | 2 1 4 2



2 marks

Arithmetic – Set 6 – 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	3F1c	36	5C2
17	3C8/4C6a	37	6F5a
18	4C7	38	5F6a
19	5C6a	39	6C7b
20	5C7b		

Arithmetic – Set 6 – Test 3

Mark scheme

Qu.	Requirement	Mark	Additional guidance
1	8,633	1m	
2	7.65	1m	
3	231	1m	
4	59.3	1m	
5	66	1m	Do not accept 66%
6	22	1m	
7	0.033	1m	
8	$\frac{7}{100}$	1m	
9	343	1m	
10	87,738	1m	
11	1.33	1m	
12	9	1m	
13	17,975	1m	
14	$\frac{17}{21}$	1m	Accept equivalent fractions or an <u>exact</u> decimal equivalent, 0.8095238
15	90,752	1m	
16	54	1m	
17	11	1m	
18	5,580	1m	
19	18,000	1m	
20	82	1m	
21	<p>Award TWO marks for the correct answer of 89,856</p> <p>If the answer is incorrect, award ONE mark for a formal method of long multiplication with no more than ONE arithmetic error.</p>	Up to 2m	<p>Work must be carried through to reach a final answer for the award of ONE mark.</p> <p>DO NOT award any marks if the error is in the place value, e.g. the omission of the zero when multiplying by tens.</p>
22	39.48	1m	

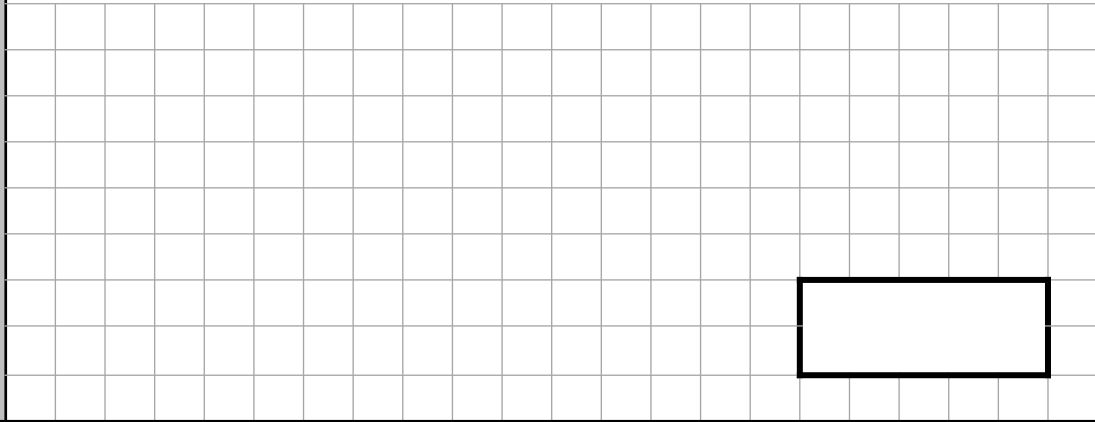
Arithmetic – Set 6 – Test 3

Mark scheme

Qu.	Requirement	Mark	Additional guidance
23	105.76	1m	
24	7.29	1m	
25	908	1m	
26	11,750	1m	
27	49	1m	
28	$\frac{2}{20}$ or $\frac{1}{10}$	1m	Accept equivalent fractions or an <u>exact</u> decimal equivalent, 0.1
29	584.9	1m	
30	89	1m	
31	$\frac{15}{42}$ or $\frac{5}{14}$	1m	Accept equivalent fractions or an exact decimal equivalent, 0.3571428
32	2,502	1m	
33	31.5	1m	Do not accept 31.5%
34	70	1m	
35	Award TWO marks for the correct answer of 288,268 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	31,082	1m	
37	$\frac{24}{45}$	1m	Accept equivalent fractions or an <u>exact</u> decimal equivalent, 0.5333333
38	$\frac{65}{100}$	1m	Accept equivalent fractions.
39	Award TWO marks for the correct answer of 63 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


$$1,948 - 80 =$$



1 mark

2

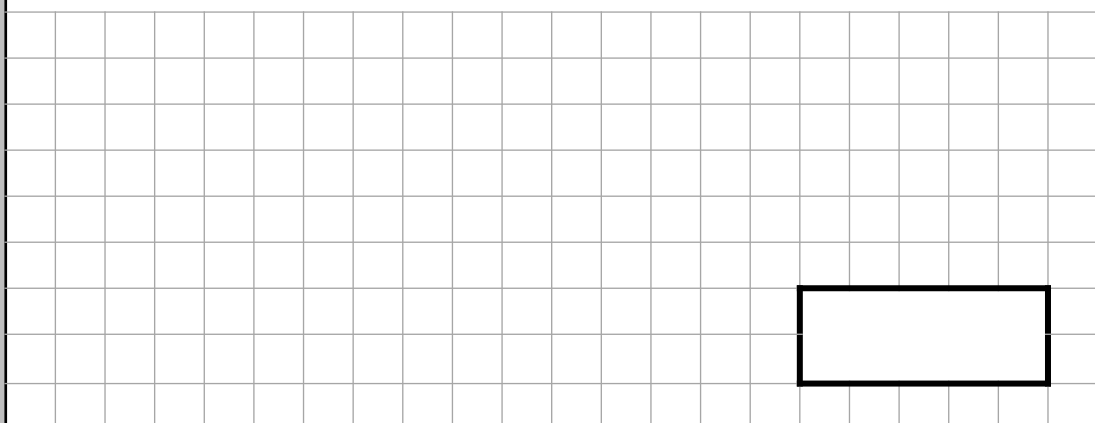
$$32 \div 100 =$$



1 mark

3

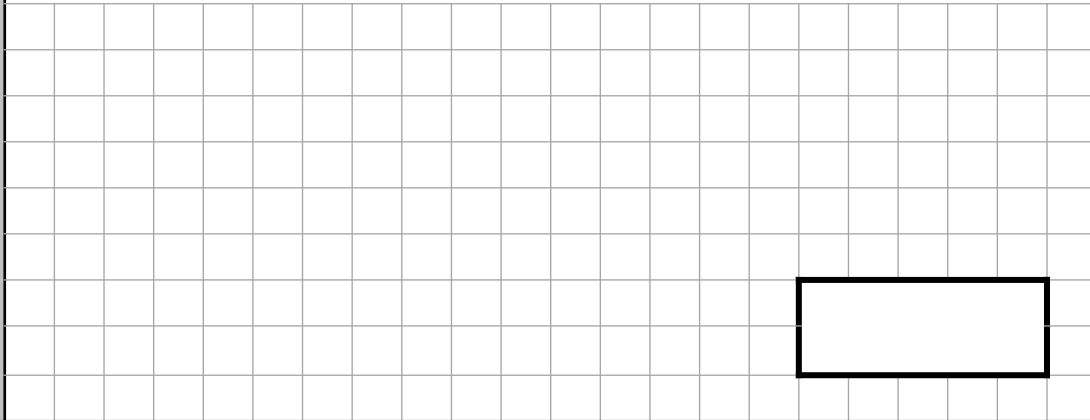
$$89 \times 6 =$$



1 mark

4

$$43,683 + 1,000 =$$



1 mark

5

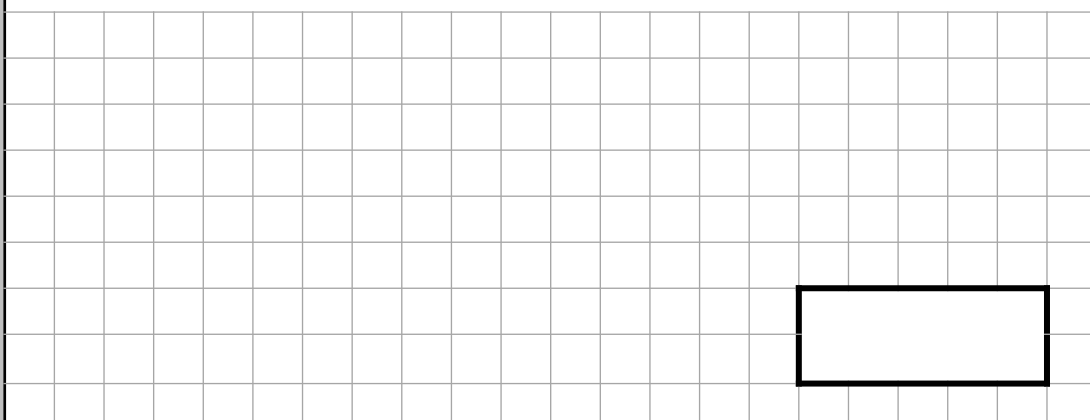
$$5\% \text{ of } 340 =$$



1 mark

6


$$189 \div 9 =$$



1 mark

7

$$546 \div 3 =$$



1 mark

8

$$98 \div 1,000 =$$



1 mark

9

$$54,587 - 800 =$$



1 mark

10

$$6.09 + 0.7 =$$



1 mark

11

$$80 \times 4 =$$



1 mark

12

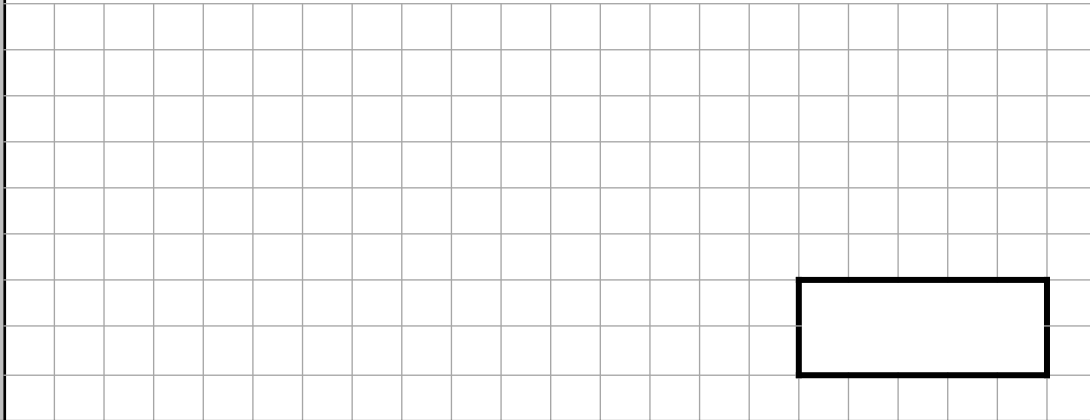
$$55.9 - 3.93 =$$



1 mark

13

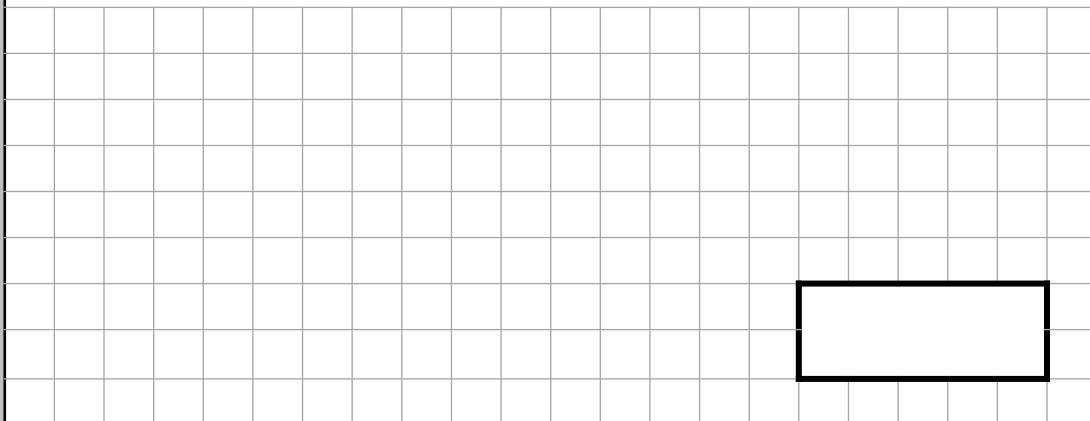
$$4,987 - 500 =$$



1 mark

14

$$63,902 + 995 =$$



1 mark

15

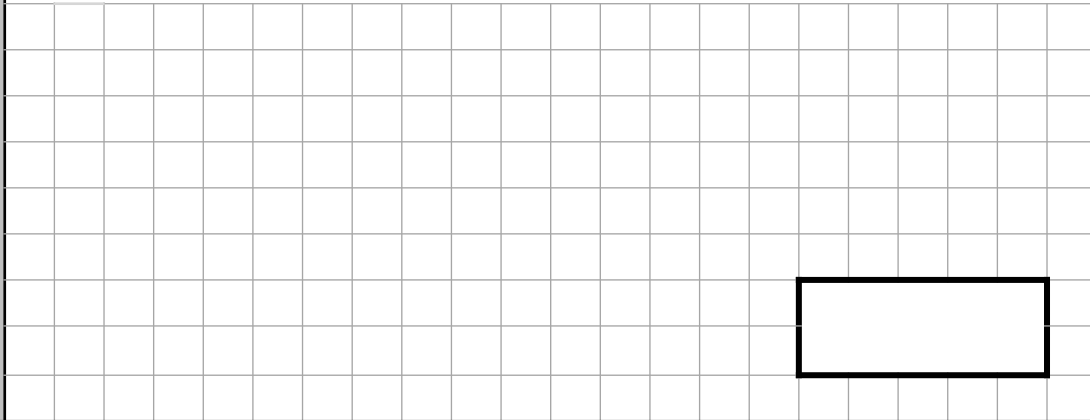
$$67.09 + 3.8 =$$



1 mark

16

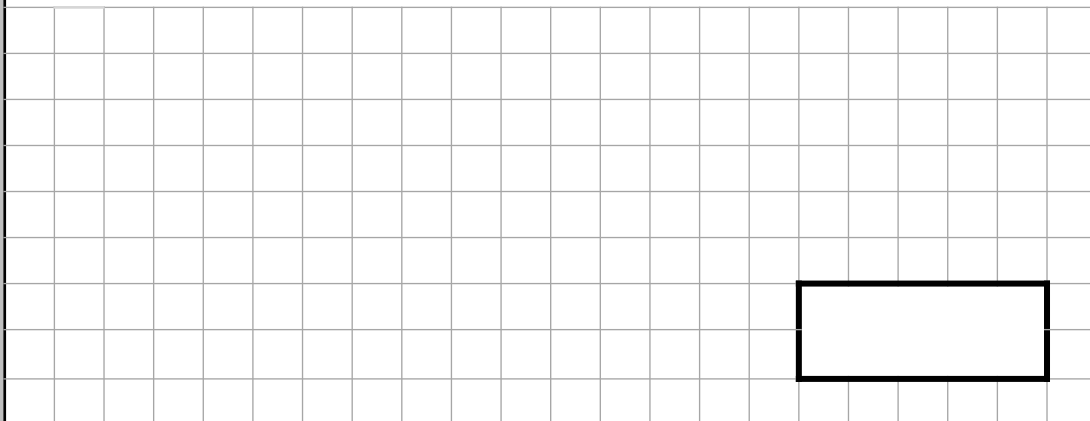
$$12 \times 0 \times 1 =$$



1 mark

17

$$6.9 \div 100 =$$



1 mark

18

$$6,000 - 59 =$$



1 mark

19

$$0.02 \times \boxed{} = 20$$



1 mark

20

$$2\frac{1}{4} + 2\frac{2}{5} =$$



1 mark

21

$$0.80 = \frac{\boxed{}}{\boxed{}}$$

<input style="width: 50px; height: 20px;" type="text"/> <hr style="width: 50%; margin: 0 auto;"/> <input style="width: 50px; height: 20px;" type="text"/>
--



1 mark

28

$$1\frac{3}{4} \times 9 =$$



1 mark

29

$$\boxed{} \times 70 = 2,800$$



1 mark

30

$$\frac{6}{7} \div 3 =$$



1 mark

31

$$0.95 = \frac{\square}{\square}$$

$$\frac{\square}{\square}$$



1 mark

32

3	5	1	8	2	0
---	---	---	---	---	---



2 marks

33

$$16\% \text{ of } 400 =$$



1 mark

34

$$\boxed{} - 2,500 = 14,985$$



1 mark

35

$$2.78 - 1.09 =$$



1 mark

36

$$\frac{2}{5} \times \frac{1}{9} =$$



1 mark

37

$$600 \div 6 =$$



1 mark

38

$$1\frac{4}{7} \times 3 =$$



1 mark

39

1	7	4	3	8	6
---	---	---	---	---	---



2 marks

Arithmetic – Set 6 – 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 6 – Test 4

Mark scheme

Qu.	Requirement	Mark	Additional guidance
1	1,868	1m	
2	0.32	1m	
3	534	1m	
4	44,683	1m	
5	17	1m	Do not accept 17%
6	21	1m	
7	182	1m	
8	0.098	1m	
9	53,787	1m	
10	6.79	1m	
11	320	1m	
12	51.97	1m	
13	4,487	1m	
14	64,897	1m	
15	70.89	1m	
16	0	1m	
17	0.069	1m	
18	5,941	1m	
19	1,000	1m	
20	$\frac{93}{20}$ or $4\frac{13}{20}$	1m	Accept equivalent fractions or an <u>exact</u> decimal equivalent, 4.65
21	$\frac{80}{100}$ or $\frac{4}{5}$	1m	Accept equivalent fractions.
22	6.986	1m	
23	Award TWO marks for the correct answer of 351,975 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.

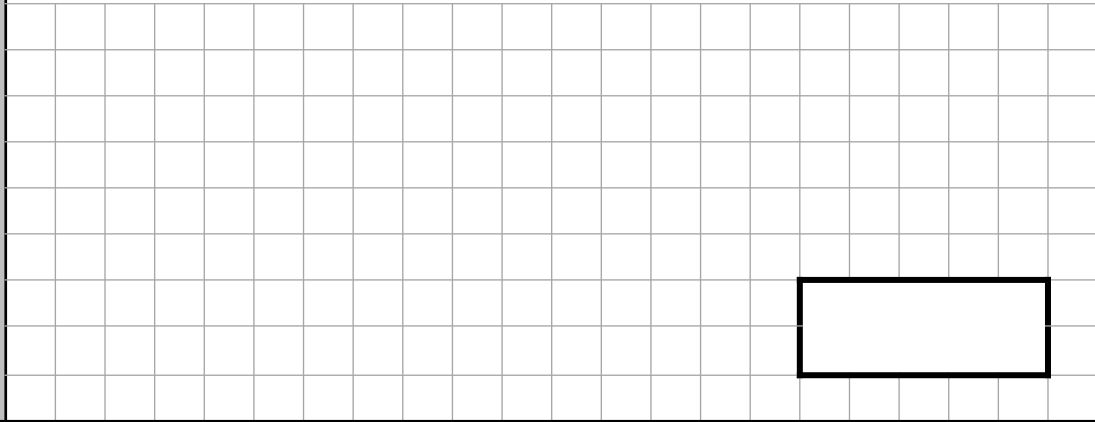
Arithmetic – Set 6 – Test 4

Mark scheme

Qu.	Requirement	Mark	Additional guidance
24	53	1m	
25	9	1m	
26	19,895	1m	
27	54,910	1m	
28	$\frac{63}{4}$ or $15\frac{3}{4}$	1m	Accept equivalent fractions or an <u>exact</u> decimal equivalent, 15.75
29	40	1m	
30	$\frac{6}{21}$	1m	Accept equivalent fractions or an <u>exact</u> decimal equivalent, 0.2857142
31	$\frac{95}{100}$ or $\frac{19}{20}$	1m	
32	Award TWO marks for the correct answer of 52 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	64	1m	Do not accept 64%
34	17,485	1m	
35	1.69	1m	
36	$\frac{2}{45}$	1m	Accept equivalent fractions or an <u>exact</u> decimal equivalent, 0.044444444
37	100	1m	
38	$4\frac{5}{7}$ or $\frac{33}{7}$	1m	Accept equivalent fractions or an <u>exact</u> decimal equivalent, 4.7142857
39	Award TWO marks for the correct answer of 258 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


$$10,564 - 900 =$$



1 mark

2

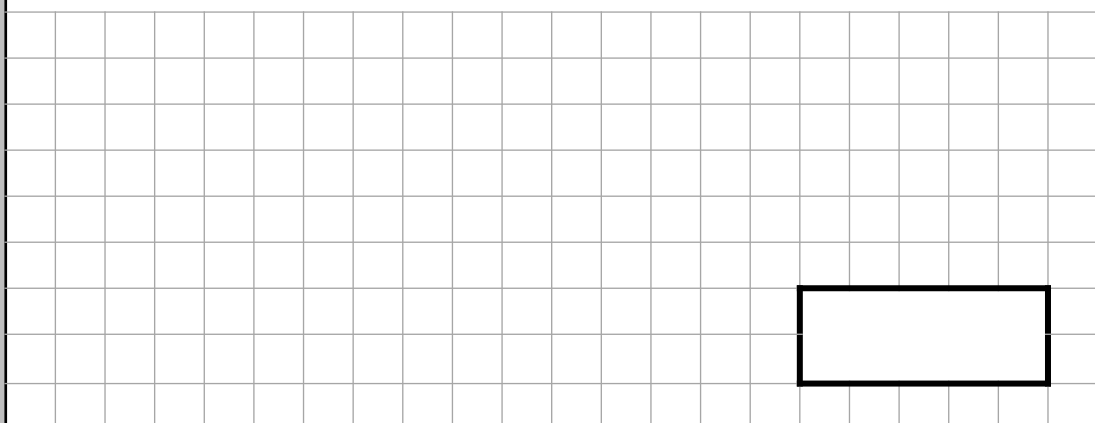
$$0.1 \times 1 =$$



1 mark

3

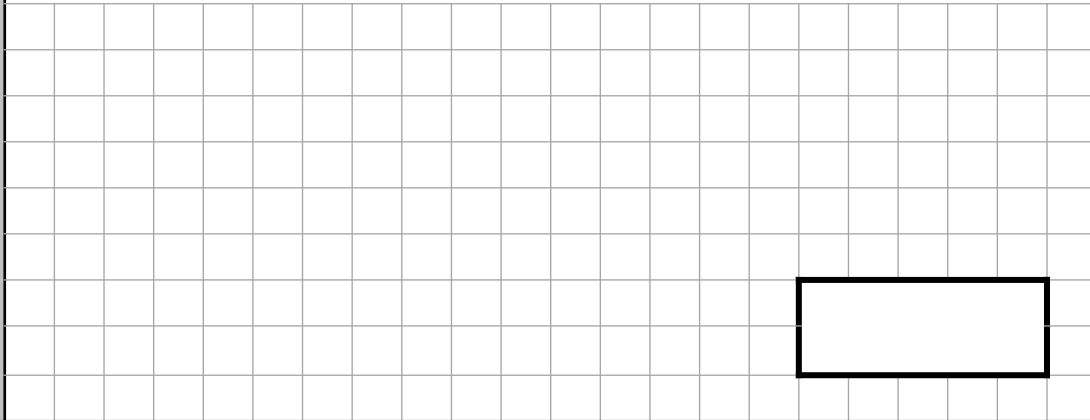
$$2.09 \times 100 =$$



1 mark

4

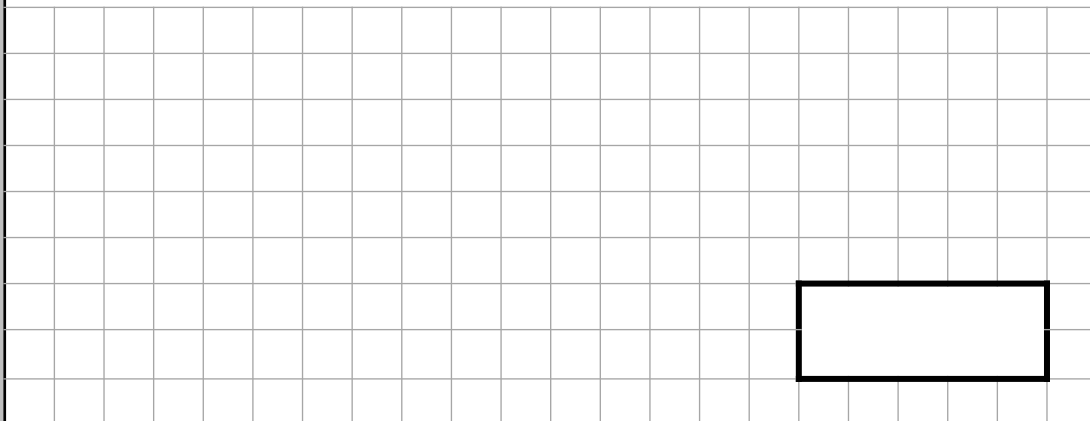
$$4,501 \div 1,000 =$$



1 mark

5

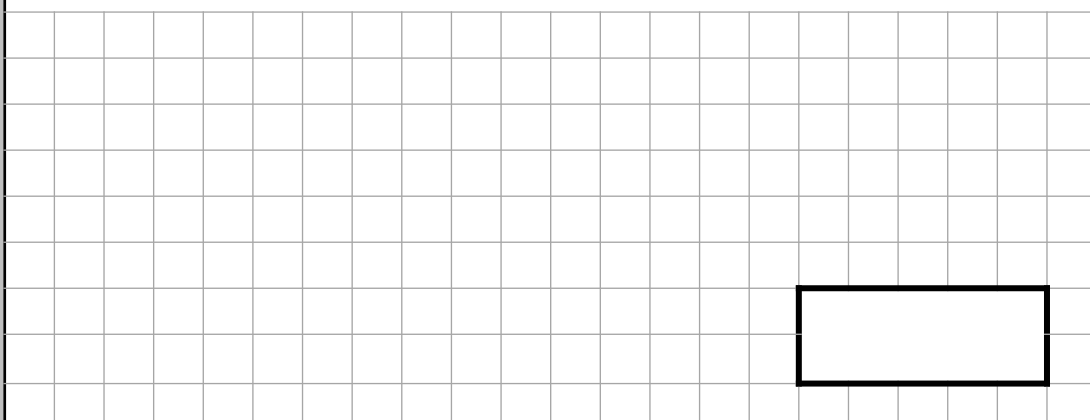
$$8,091 - 4,765 =$$



1 mark

6

$$872 + 88 =$$



1 mark

7

21% of 60 =



1 mark

8

9,565 – = 4,500



1 mark

9

$\frac{3}{5}$ of 90 =



1 mark

10

$$621 \times 8 =$$



1 mark

11

$$(2 + 8) + 4^2 =$$



1 mark

12

$$78.2 \div 4 =$$



1 mark

13

$$7 \times 6 \times 1 =$$



1 mark

14

$$0.33 = \frac{\square}{\square}$$

□
=
□



1 mark

15

$$653 + \square = 9,876$$



1 mark

16

$$650 - 79 =$$



1 mark

17

$$\square = 12,540 + 7,980$$



1 mark

18

$$107,987 - 25,860 =$$



1 mark

19

$$87,203 - 9,043 =$$



1 mark

20

$$324 \times 6 =$$



1 mark

21

				6	8	3	2
x				8	2		



2 marks

22

$$6,400 \div 8 =$$



1 mark

23

$$1,200 \div \boxed{} = 12$$



1 mark

24

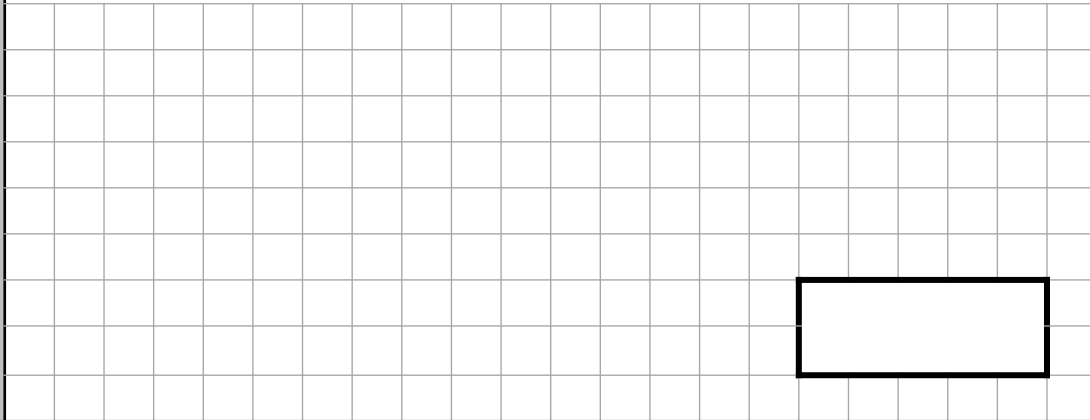
$$1 \frac{1}{6} - \frac{2}{5} =$$



1 mark

25

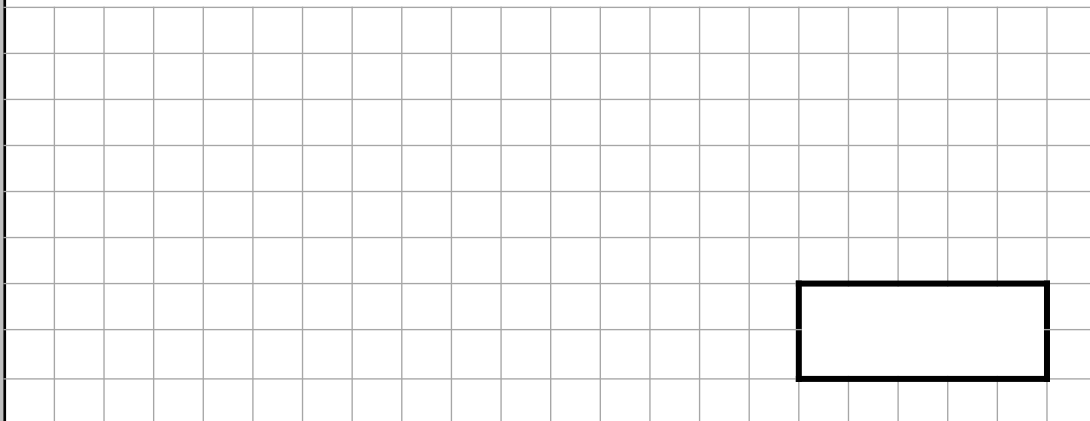
$$300 + 800 + 900 =$$



1 mark

26

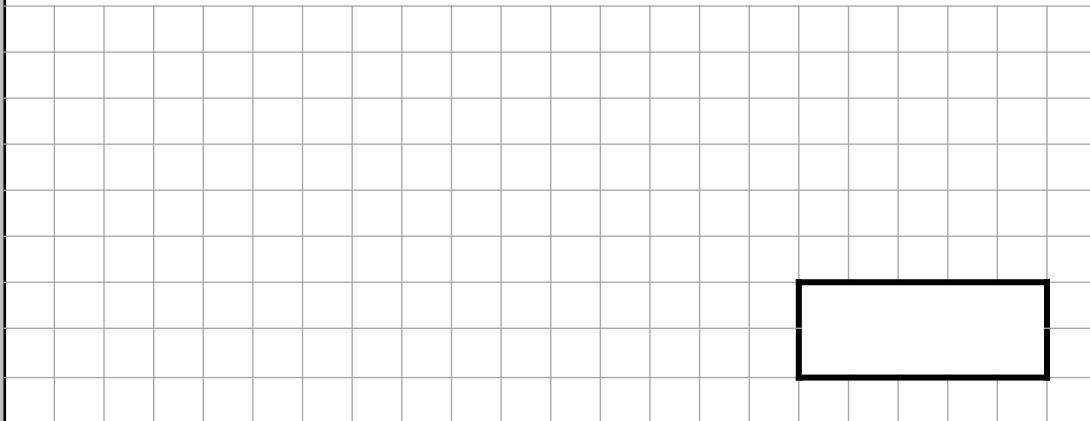
$$5.5 - 1.35 =$$



1 mark

27

$$8,901 \div 1,000 =$$



1 mark

28

$$7.921 + 8.01 =$$



1 mark

29

$$\frac{3}{5} \div 4 =$$



1 mark

30

$$5\% \text{ of } 860 =$$



1 mark

31

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



1 mark

32

$$456,982 - 12,903 =$$



1 mark

33

$$10 - 1.9 =$$



1 mark

34

$$\frac{2}{3} \times \frac{4}{5} =$$



1 mark

35

$$\begin{array}{r} 4 \ 6 \ 7 \ 9 \\ x 3 \ 8 \\ \hline \end{array}$$



2 marks

36

$$12 \times 2.2 =$$



1 mark

37

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



1 mark

38

$$72 \div 8 + 4 =$$



1 mark

39

4 5 | 3 9 6 0



2 marks

Arithmetic – Set 6 – 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 6 – Test 5

Mark scheme

Qu.	Requirement	Mark	Additional guidance
1	9,664	1m	
2	0.1	1m	
3	209	1m	
4	4.501	1m	
5	3,326	1m	
6	960	1m	
7	12.6	1m	Do not accept 12.6%
8	5,065	1m	
9	54	1m	
10	4,968	1m	
11	26	1m	
12	19.55	1m	
13	42	1m	
14	$\frac{33}{100}$	1m	
15	9,223	1m	
16	571	1m	
17	20,520	1m	
18	82,127	1m	
19	78,160	1m	
20	1,944	1m	
21	<p>Award TWO marks for the correct answer of 560,244</p> <p>If the answer is incorrect, award ONE mark for a formal method of long multiplication with no more than ONE arithmetic error.</p>	Up to 2m	<p>Work must be carried through to reach a final answer for the award of ONE mark.</p> <p>DO NOT award any marks if the error is in the place value, e.g. the omission of the zero when multiplying by tens.</p>
22	800	1m	
23	100	1m	

Arithmetic – Set 6 – Test 5

Mark scheme

Qu.	Requirement	Mark	Additional guidance
24	$\frac{23}{30}$	1m	Accept equivalent fractions or an <u>exact</u> decimal equivalent, 0.766666 (accept any unambiguous indication of the recurring decimal digit). DO NOT accept rounded or truncated decimals.
25	2,000	1m	
26	4.15	1m	
27	8.901	1m	
28	15.931	1m	
29	$\frac{3}{20}$	1m	Accept equivalent fractions or an <u>exact</u> decimal equivalent, e.g. 0.15
30	43	1m	Do not accept 43%
31	$\frac{4}{15}$	1m	Accept equivalent fractions or an <u>exact</u> decimal equivalent, 0.266666
32	444,079	1m	
33	8.1	1m	
34	$\frac{8}{15}$	1m	Accept equivalent fractions or an <u>exact</u> decimal equivalent, 0.533333
35	Award TWO marks for the correct answer of 177,802 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	26.4	1m	
37	$\frac{21}{3}$ or 7	1m	Accept equivalent fractions.
38	13	1m	

Arithmetic – Set 6 – Test 5

Mark scheme

Qu.	Requirement	Mark	Additional guidance
39	<p>Award TWO marks for the correct answer of 88</p> <p>If the answer is incorrect, award ONE mark for a formal method of division with no more than ONE arithmetic error.</p>	Up to 2m	Work must be carried through to reach a final answer for the award of ONE mark.

1

$$100,100 - 1,000 =$$



1 mark

2

$$65 \div 10 =$$



1 mark

3

$$1.22 \times 1,000 =$$



1 mark

4

$$75 + 589 =$$



1 mark

5

$$579 \times 4 =$$



1 mark

6

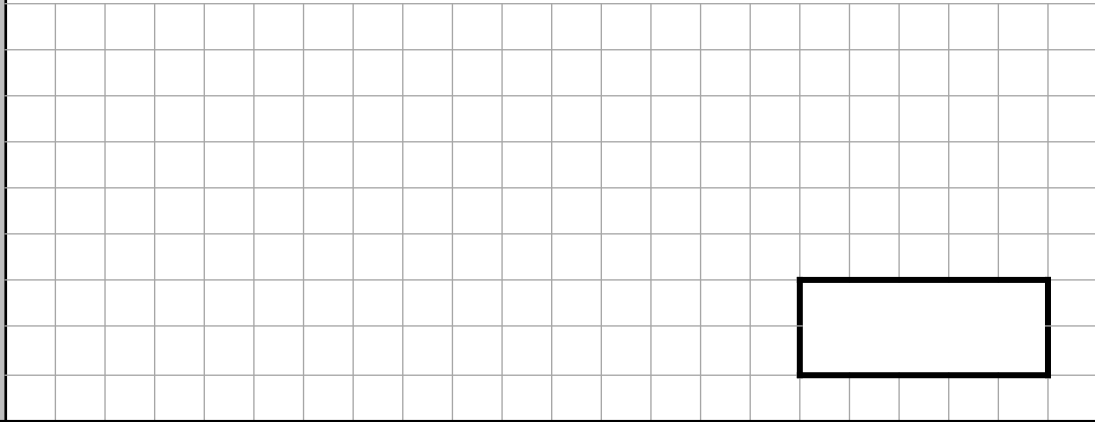
$$65,912 + 54,421 =$$



1 mark

7

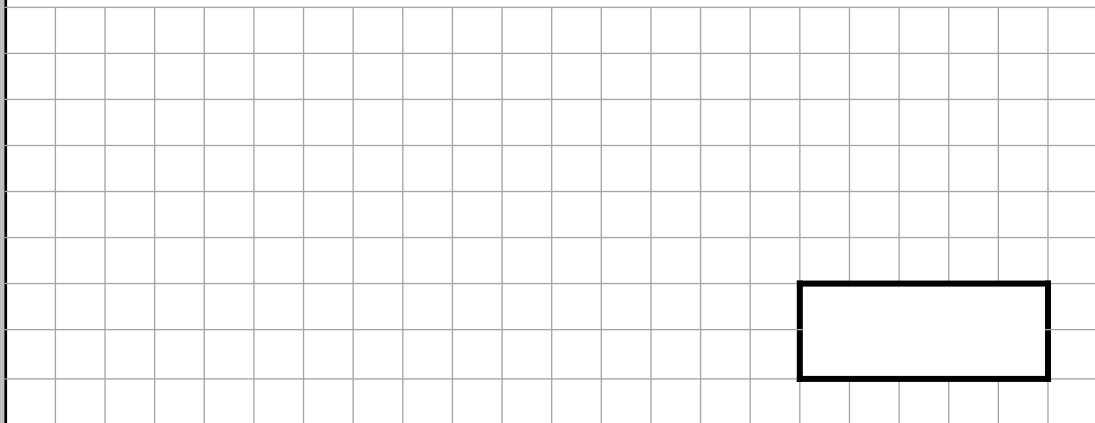
$$95,457 - 10,539 =$$



1 mark

8

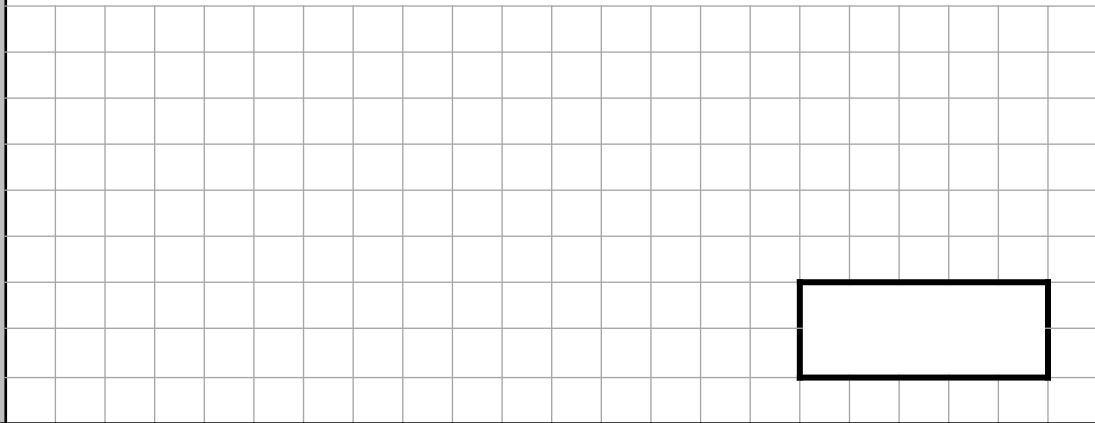
$$65\% \text{ of } 120 =$$



1 mark

9

$$\boxed{} \times 110 = 1,320$$



1 mark

10

$$1 \frac{7}{9} - \frac{1}{3} =$$



1 mark

11

$$\boxed{} + 357 = 1,500$$



1 mark

12

$$\boxed{} - 2,500 = 1,250$$



1 mark

13

$$12 \times 6.5 =$$



1 mark

14

$$400 \div 80 =$$



1 mark

15

$$\frac{2}{5} \text{ of } 125 =$$



1 mark

16

$$4,545 + \boxed{} = 7,850$$



1 mark

17

$$120 \times 120 =$$



1 mark

18

$$32 + (5 \times 4) =$$



1 mark

19

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



1 mark

20

$$23 + 1,099 =$$



1 mark

21

$$560 \div 8 =$$



1 mark

22

$$4.764 + 12.12 =$$



1 mark

23

$$\begin{array}{r} 249 \\ \times 57 \\ \hline \end{array}$$



2 marks

24

$$1,000 \times 0.07 =$$



1 mark

25

$$45,230 - 28,850 =$$



1 mark

26

$$\frac{7}{8} \div 7 =$$



1 mark

27

$$898 \times 6 =$$



1 mark

28

$$1\frac{5}{8} + 1\frac{4}{10} =$$



1 mark

29

$$5 - 3.95 =$$



1 mark

30

$$568.6 - 43.97 =$$



1 mark

31

$7\% \text{ of } 300 =$

A large grid for working out the answer to question 31. The grid is 20 squares wide and 15 squares high. A rectangular box is drawn in the bottom right corner of the grid, spanning 5 squares wide and 2 squares high.



1 mark

32

$6.32 + 19.043 =$

A large grid for working out the answer to question 32. The grid is 20 squares wide and 15 squares high. A rectangular box is drawn in the bottom right corner of the grid, spanning 5 squares wide and 2 squares high.



1 mark

33

$70 \times 90 =$

A large grid for working out the answer to question 33. The grid is 20 squares wide and 15 squares high. A rectangular box is drawn in the bottom right corner of the grid, spanning 5 squares wide and 2 squares high.



1 mark

34

$$\frac{8}{10} \times 3 =$$



1 mark

35

$$392 \div 7 =$$



1 mark

36

$$12,983 - 8,366 =$$



1 mark

37

$$\begin{array}{r} 7926 \\ \times \quad 39 \\ \hline \end{array}$$



2 marks

38

$$36 \overline{) 900}$$



2 marks

39

$$45 - 7 \times 3 =$$



1 mark

Arithmetic – Set 6 – 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 6 – Test 6

Mark scheme

Qu.	Requirement	Mark	Additional guidance
1	99,100	1m	
2	6.5	1m	
3	1,220	1m	
4	664	1m	
5	2,316	1m	
6	120,333	1m	
7	84,918	1m	
8	78	1m	Do not accept 78%
9	12	1m	
10	$\frac{13}{9}$ or $1\frac{4}{9}$	1m	Accept equivalent fractions or an <u>exact</u> decimal equivalent, 1.44444444 (accept any unambiguous indication of the recurring decimal digit). DO NOT accept rounded or truncated decimals.
11	1,143	1m	
12	3,750	1m	
13	78	1m	
14	5	1m	
15	50	1m	
16	3,305	1m	
17	14,400	1m	
18	52	1m	
19	$\frac{17}{12}$ or $1\frac{5}{12}$	1m	Accept equivalent fractions or an <u>exact</u> decimal equivalent, 1.4166666
20	1,122	1m	
21	70	1m	
22	16.884	1m	

Arithmetic – Set 6 – Test 6

Mark scheme

Qu.	Requirement	Mark	Additional guidance
23	Award TWO marks for the correct answer of 14,193 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.
24	70	1m	
25	16,380	1m	
26	$\frac{7}{56}$ or $\frac{1}{8}$	1m	Accept equivalent fractions or an <u>exact</u> decimal equivalent, e.g. 0.125
27	5,388	1m	
28	$\frac{121}{40}$ or $3\frac{1}{40}$	1m	Accept equivalent fractions or an <u>exact</u> decimal equivalent, e.g. 3.025
29	1.05	1m	
30	524.63	1m	
31	21	1m	Do not accept 13.5%
32	25.363	1m	
33	6,300	1m	
34	$\frac{24}{10}$ or $2\frac{2}{5}$	1m	Accept equivalent fractions or an <u>exact</u> decimal equivalent, 2.7
35	56	1m	
36	4,617	1m	
37	Award TWO marks for the correct answer of 309,114 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 6 – Test 6

Mark scheme

Qu.	Requirement	Mark	Additional guidance
38	Award TWO marks for the correct answer of 25 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	24	1m	