

Year 6
Parents' Practice and Revision
**Arithmetic Activity
Booklet**



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Information and Guidance for Parents

Welcome to the Twinkl SATs Revision and Practice Guide for Arithmetic. This pack is intended to help you understand the KS2 Arithmetic test and to practise key arithmetic questions similar to those that may come up in the tests.

The KS2 Arithmetic Test

Children are asked to answer 36 questions in thirty minutes for the KS2 arithmetic test. The questions cover areas of the mathematics national curriculum (2014) that would be regarded as arithmetic. The curriculum can be found at:

<https://www.gov.uk/government/publications/national-curriculum-in-england-mathematics-programmes-of-study>

The national curriculum is expected to be taught over the four years of Key Stage 2. Therefore the questions in the test are based on all the arithmetic objectives from the KS2 national curriculum (and not just what they learn in Year 6).

The questions are each written with a grid beneath for the children to write any working out, and an answer box in the bottom right. Most of the grids are this size, but those for the formal methods with larger numbers are slightly bigger. Here is an example of the grid. The larger one has 12 rows.

36																				

Many other areas of the mathematics curriculum are tested in the reasoning papers.

How to use this pack

This arithmetic pack has broken down the statutory requirements of the KS2 national curriculum covered in the arithmetic tests into five quizzes, each one consisting of a number of questions. Each quiz contains the answers and any relevant explanation of which national curriculum arithmetic requirement is being tested.

- Use each quiz with your child during the weeks building up to the KS2 SATs tests.
- Together, mark the quiz using the answer sheet and identify any questions on the quiz your child struggled with. They may need further support in this area to learn that individual arithmetic method or concept. If there are any arithmetic questions your child struggles with, use the Twinkl website to find resources to support your child with that arithmetic method or concept.
- Use the blank sheets to write similar questions to those in the quizzes.

Year 6 Arithmetic Quiz 1

Add and subtract 10 and 100.

1	$55 + 10 =$

2	$27 + 10 =$

3	$91 + 10 =$

19

$$683 - 30 =$$



20

$$417 - 60 =$$



21

$$369 + 500 =$$



Year 6 Arithmetic Quiz 1: Answers

1. 65
2. 37
3. 101
4. 406
5. 661
6. 1024
7. 49
8. 15
9. 93
10. 482
11. 967
12. 82
13. 725
14. 1001
15. 341
16. 811
17. 922
18. 552
19. 653
20. 357
21. 869
22. 1237
23. 99
24. 507
25. 42
26. 56
27. 22
28. 8
29. 12
30. 7
31. 480
32. 80
33. 360
34. 70
35. 330
36. 90

Year 6 Arithmetic Quiz 1

Find 10 or 100 more or less than a given number

Add 10 or 100 by increasing the tens or hundreds digit: $285 + 10 = 295$.

Where the digit is a 9, the next place value increases by a hundred or thousand and the ten or hundred will be 0: $295 + 10 = 305$

Subtract 10 or 100 by decreasing the tens or hundreds digit: $412 - 10 = 402$

Where the digit is a 0, the next place value is decreased by a hundred of thousand and the ten or hundred will be 9: $402 - 10 = 392$

Adding and subtracting three-digit numbers and ones, tens and hundreds

As with adding or subtracting 10 or 100, adding ones, tens or hundreds involves adding or subtracting the relevant place value and sometimes this may affect the next higher place value as well.

$$273 + 4 = 277 \text{ because } 3 + 4 = 7$$

$$286 + 8 = 294 \text{ because } 86 + 8 = 94$$

or

$$349 - 30 = 319 \text{ because } 40 - 30 = 10 \text{ or } 4 \text{ tens} - 3 \text{ tens} = 1 \text{ ten}$$

$$723 - 50 = 673 \text{ because } 120 - 50 = 70 \text{ or } 12 \text{ tens} - 5 \text{ tens} = 7 \text{ tens}$$

If your child struggles with these, then start with a problem similar to the first example each time. It will take lots of practice to embed this process fully, even if your child says they 'understand' it.

Multiplication tables

Children need to know all the multiplication tables to 12×12

$$7 \times 6 = 42$$

$$56 \div 8 = 7$$

Use the multiplication facts

$$7 \times 60 = 420$$

$$560 \div 8 = 70$$

Year 6 Arithmetic Quiz 2

Addition using written columnar methods.

1

$2693 + 398 =$

2

$4098 + 673 =$

3

$5882 + 492 =$

4

$$40\ 000 + 40 =$$



5

$$60\ 000 + 300 =$$



6

$$50\ 000 + 7000 =$$



16

$$50\,000 - 30 =$$



17

$$40\,000 - 200 =$$



18

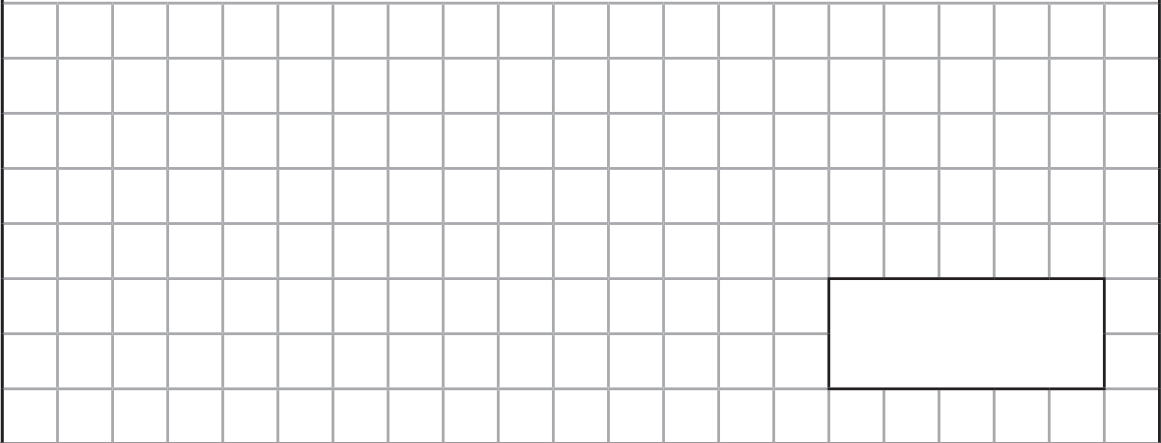
$$70\,000 - 8\,000 =$$



Order of operations.

25

$$9 \times (4 + 2) =$$




A grid for writing the answer to problem 25. The grid is 18 squares wide and 10 squares high. A rectangular box is drawn on the right side of the grid, spanning 8 squares wide and 3 squares high, intended for the student's answer.



26

$$9 \times 4 + 2 =$$



A grid for writing the answer to problem 26. The grid is 18 squares wide and 10 squares high. A rectangular box is drawn on the right side of the grid, spanning 8 squares wide and 3 squares high, intended for the student's answer.



27

$$5 + 2 \times 7 =$$



A grid for writing the answer to problem 27. The grid is 18 squares wide and 10 squares high. A rectangular box is drawn on the right side of the grid, spanning 8 squares wide and 3 squares high, intended for the student's answer.



34

$$(18 - 12) \div 2 =$$



35

$$12 - 3 \times 4 =$$



36

$$(12 - 3) \times 4 =$$



Year 6 Arithmetic Quiz 2: Answers

1. 3091
2. 4771
3. 6374
4. 40 040
5. 60 300
6. 57 000
7. 192 804
8. 739 817
9. 475 632
10. 714 221
11. 917 002
12. 287 550
13. 7922
14. 4474
15. 8199
16. 49 970
17. 39 800
18. 62 000
19. 665 638
20. 575 329
21. 178 455
22. 734 037
23. 294 264
24. 919 864
25. 54
26. 38
27. 19
28. 49
29. 11
30. 5
31. 10
32. 1
33. 12
34. 3
35. 0
36. 36

Year 6 Arithmetic Quiz 2

Addition using written columnar methods

1. Write the calculation lining up from the right with the ones, tens and hundreds in line. (It can sometimes be helpful to label the columns 1, T, H, Th.)
2. Add the ones: $7 + 6 = 13$. Write the 3 under the 6 and the 1 (ten) under the next column.
3. Add the tens: $1 + 4 + 1 = 6$. Remember to include the ten carried from adding the ones.
4. Add the hundreds: $4 + 8 = 12$. Write the 2 (hundreds) under the 8 and the 1 (thousand) under the next column.
5. Add the thousands: $6 + 1 = 7$. Remember to include the thousand carried from adding the hundreds.

	6	4	1	7	
	+	8	4	6	
	7	2	6	3	
		1		1	

Subtraction using written columnar methods

1. Write the calculation lining up from the right with the ones, tens and hundreds in line. (It can sometimes be helpful to label the columns 1, T, H, Th.)
2. Subtract the ones: $6 - 4 = 2$. Write the 2 under the 4.
3. Subtract the tens: $3 - 8$ would give a negative answer. Take a hundred from the 1 (hundred) making this 0 (hundreds) in order to make 13 in the tens column (13 tens). So $13 - 8 = 5$. Write the 5 (tens) under the 8.
4. Subtract the hundreds: $0 - 5$ would give a negative answer. Take a thousand from the 4 (thousands) leaving 3 (thousands) in order to make 10 in the hundreds column (10 hundreds). So $10 - 5 = 5$. Write the 5 (hundreds) under the 5.
5. Subtract the thousands: $3 - 0 = 3$.

	³ 4	¹⁰ 0	¹ 3	6	
	-	5	8	4	
	3	5	5	2	

Order of Operations

There is an agreed order for operations to be carried out. This is often known as BODMAS or BIDMAS.

Brackets

Order or **I**ndices

Division and **M**ultiplication

Addition and **S**ubtraction

Brackets: Start by calculating anything inside brackets.

$$3 \times (4 + 2) = 3 \times 6 = 18$$

Order or Indices: this includes the square number symbol 5^2 .

$$4 + 5^2 = 4 + 25 = 29$$

Division and Multiplication: division first, then multiplication come before any addition and subtraction.


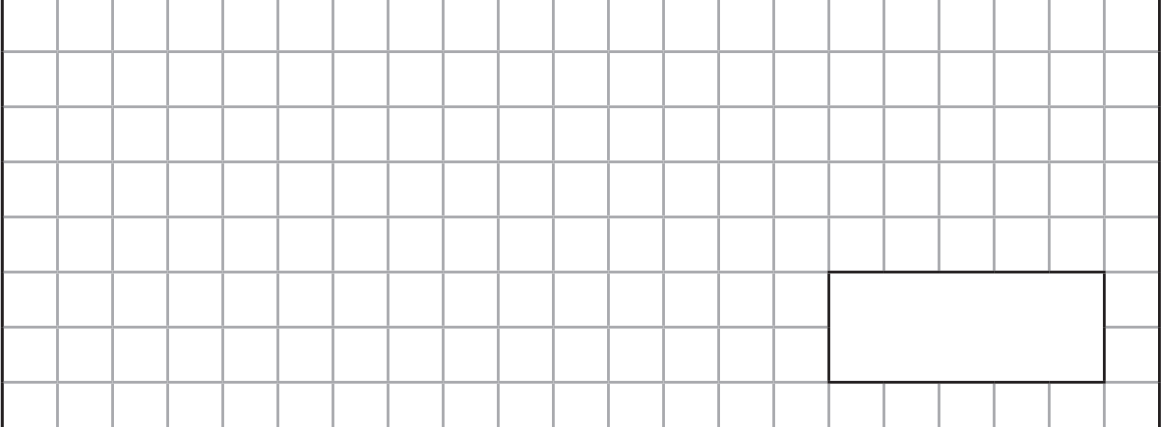
$$4 + 3 \times 5 = 4 + 15 = 19$$

Addition and subtraction can be done in any order.


Year 6 Arithmetic Quiz 3

Square and cube numbers.

1 $3^2 =$



2 $5^2 =$



3 $7^2 =$



Multiply by 0 and 1, divide by 1.


7	$78 \times 1 =$	A large grid for calculation, with a smaller rectangular box on the right side for the answer.

8	$1045 \times 1 =$	A large grid for calculation, with a smaller rectangular box on the right side for the answer.

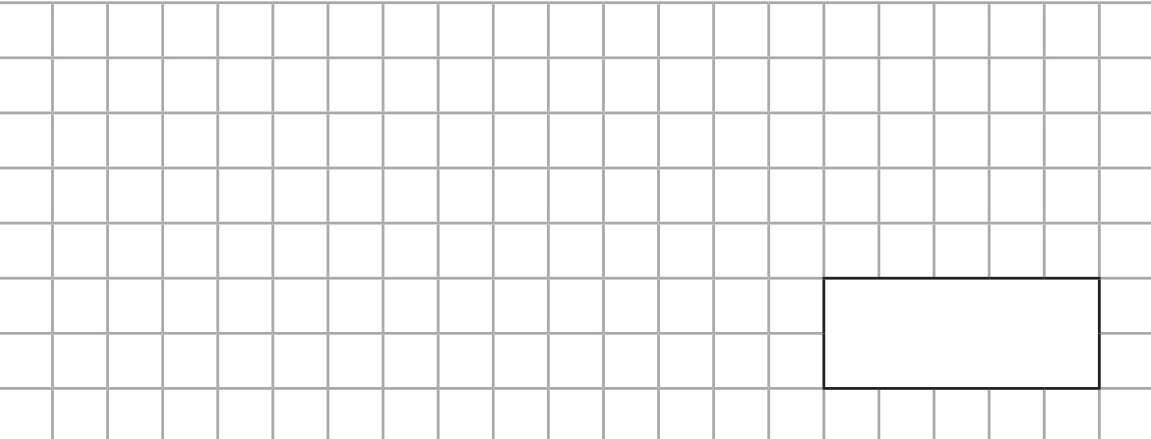
9	$62 \times 0 =$	A large grid for calculation, with a smaller rectangular box on the right side for the answer.

10

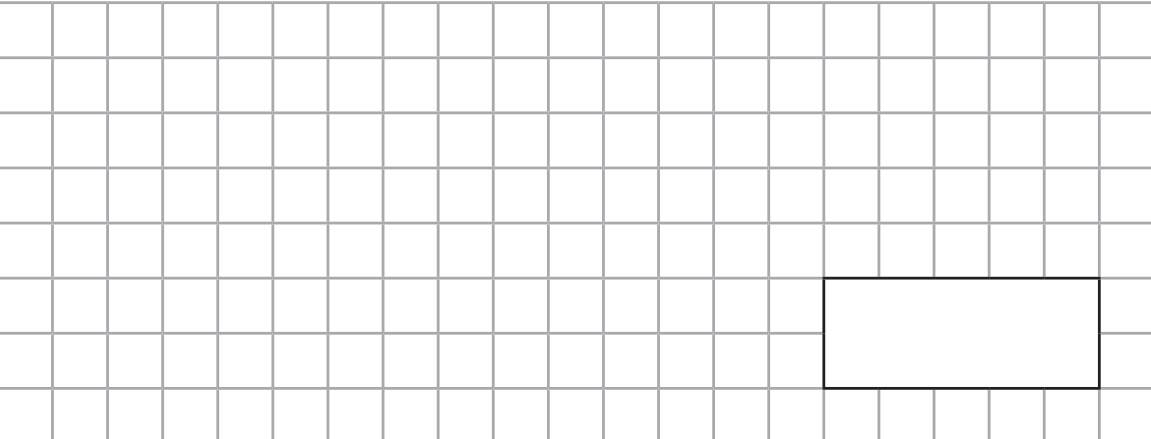
$723 \times 0 =$

**11**

$61 \div 1 =$

**12**

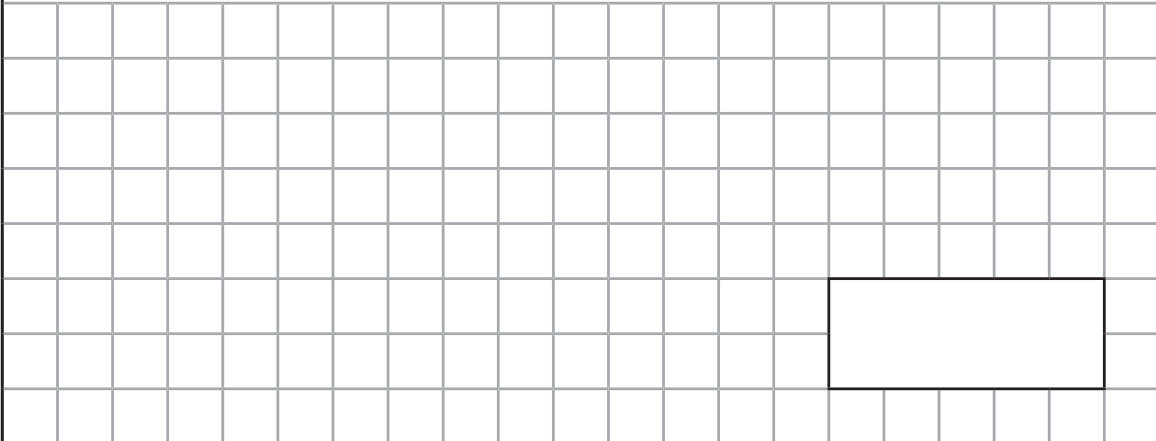
$261 \div 1 =$



Multiplying three numbers.

13

$9 \times 4 \times 8 =$

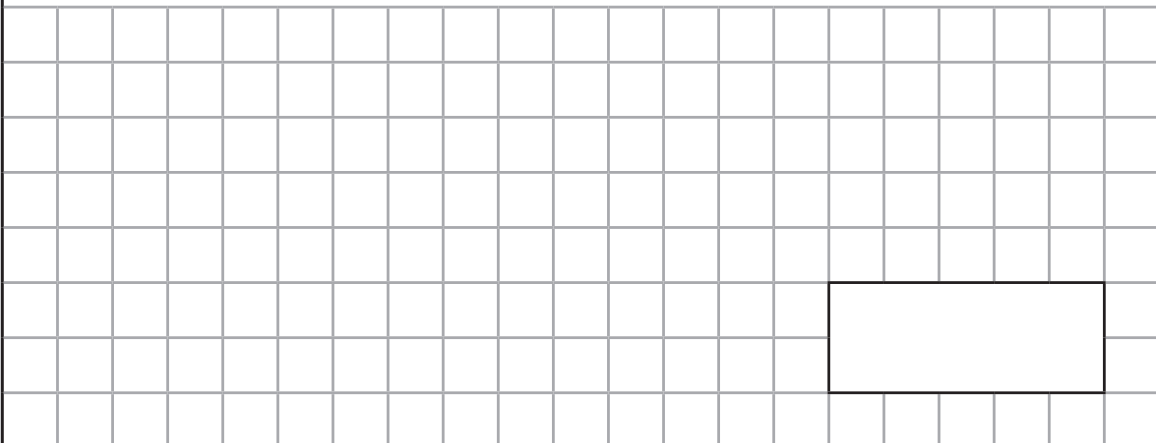


A grid for calculation consisting of 20 columns and 15 rows. The top row is empty. A rectangular box is drawn on the grid, spanning 8 columns and 3 rows, located in the bottom right area of the grid.



14

$6 \times 8 \times 4 =$

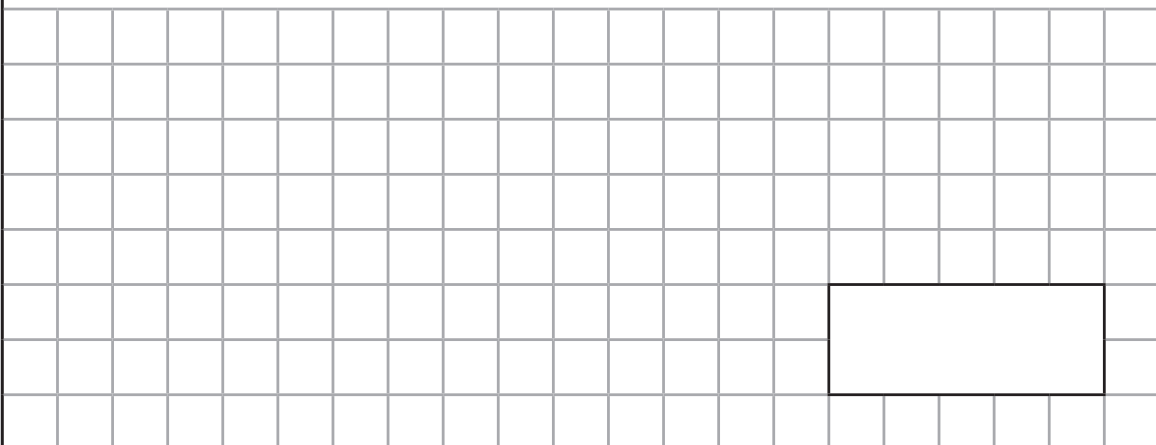


A grid for calculation consisting of 20 columns and 15 rows. The top row is empty. A rectangular box is drawn on the grid, spanning 8 columns and 3 rows, located in the bottom right area of the grid.



15

$3 \times 5 \times 6 =$

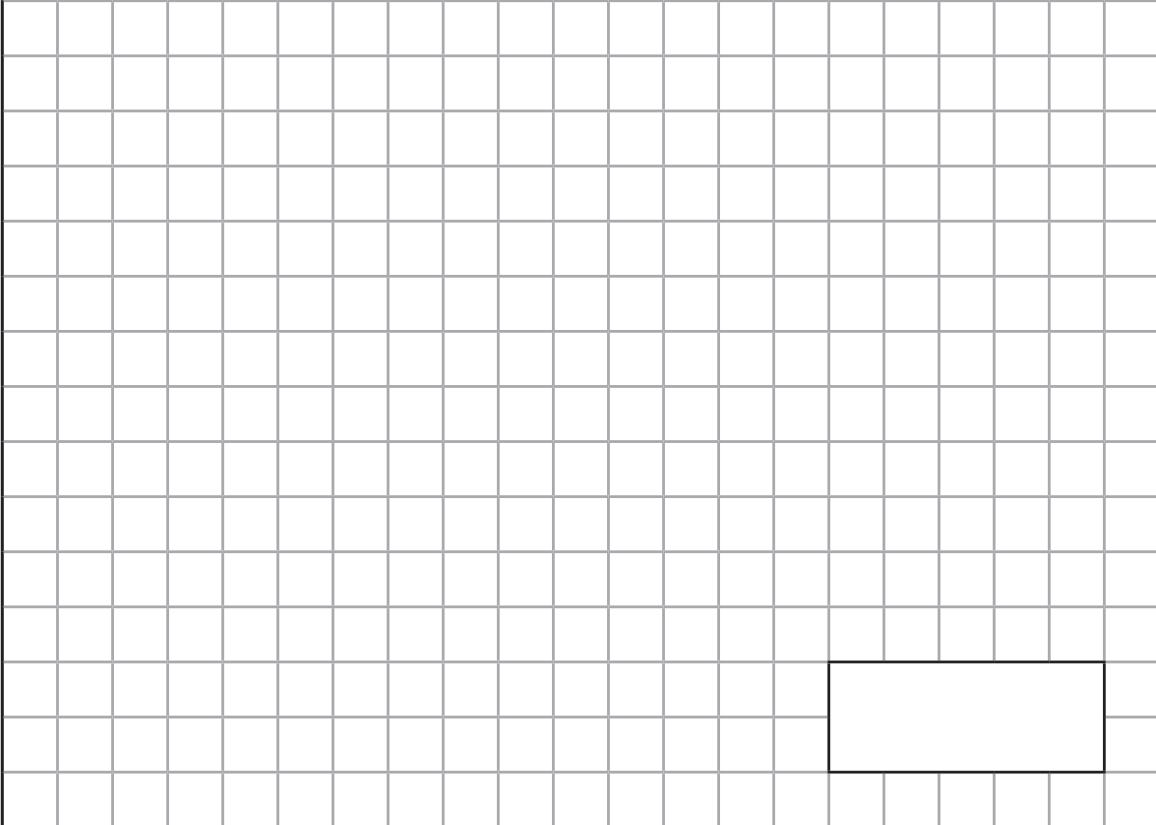


A grid for calculation consisting of 20 columns and 15 rows. The top row is empty. A rectangular box is drawn on the grid, spanning 8 columns and 3 rows, located in the bottom right area of the grid.



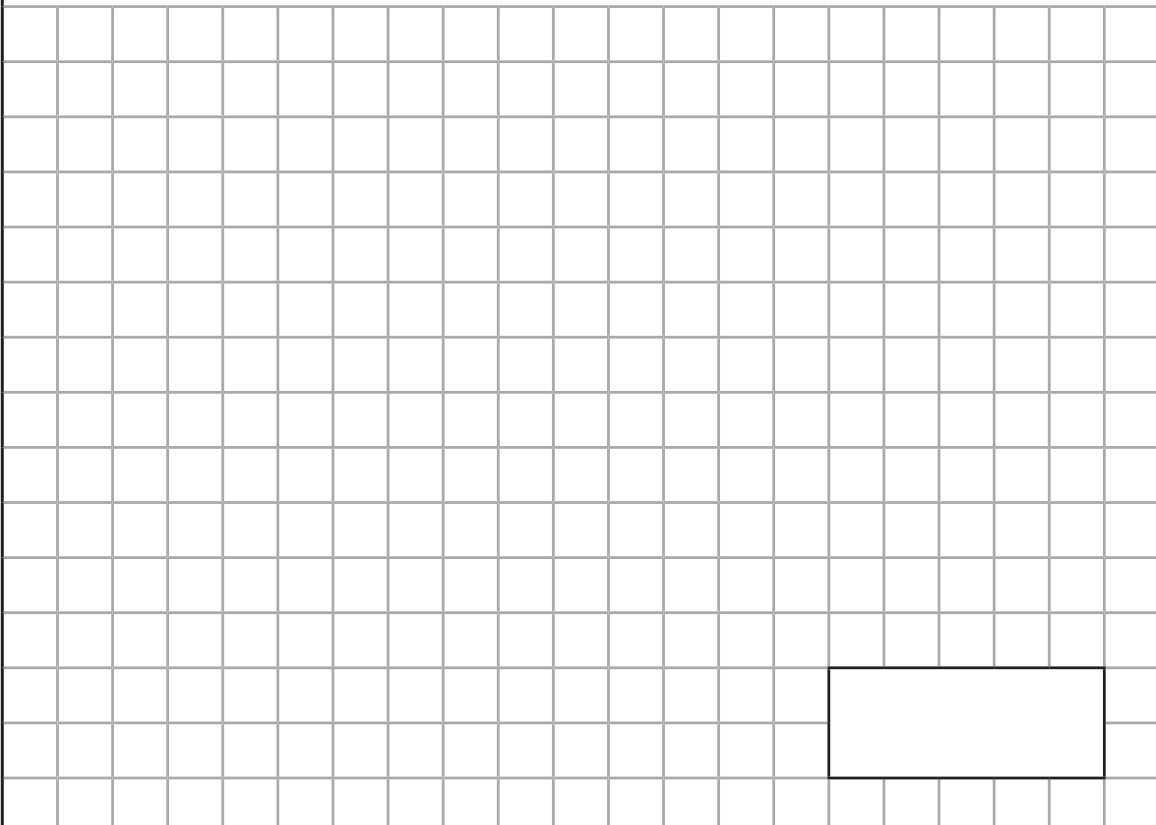
24

$$772 \times 87 =$$

A large grid of 20 columns and 20 rows. At the bottom right, there is a small empty rectangular box, approximately 4 units wide and 2 units high, for the student to write the answer.

25

$$2288 \times 14 =$$

A large grid of 20 columns and 20 rows. At the bottom right, there is a small empty rectangular box, approximately 4 units wide and 2 units high, for the student to write the answer.

Dividing using formal written methods.

28

$$272 \div 4 =$$



29

$$696 \div 8 =$$



30

$$972 \div 9 =$$



31

$$322 \div 23 =$$

A large grid area for working out the division problem. A small rectangular box is located at the bottom right of the grid for the final answer.



32

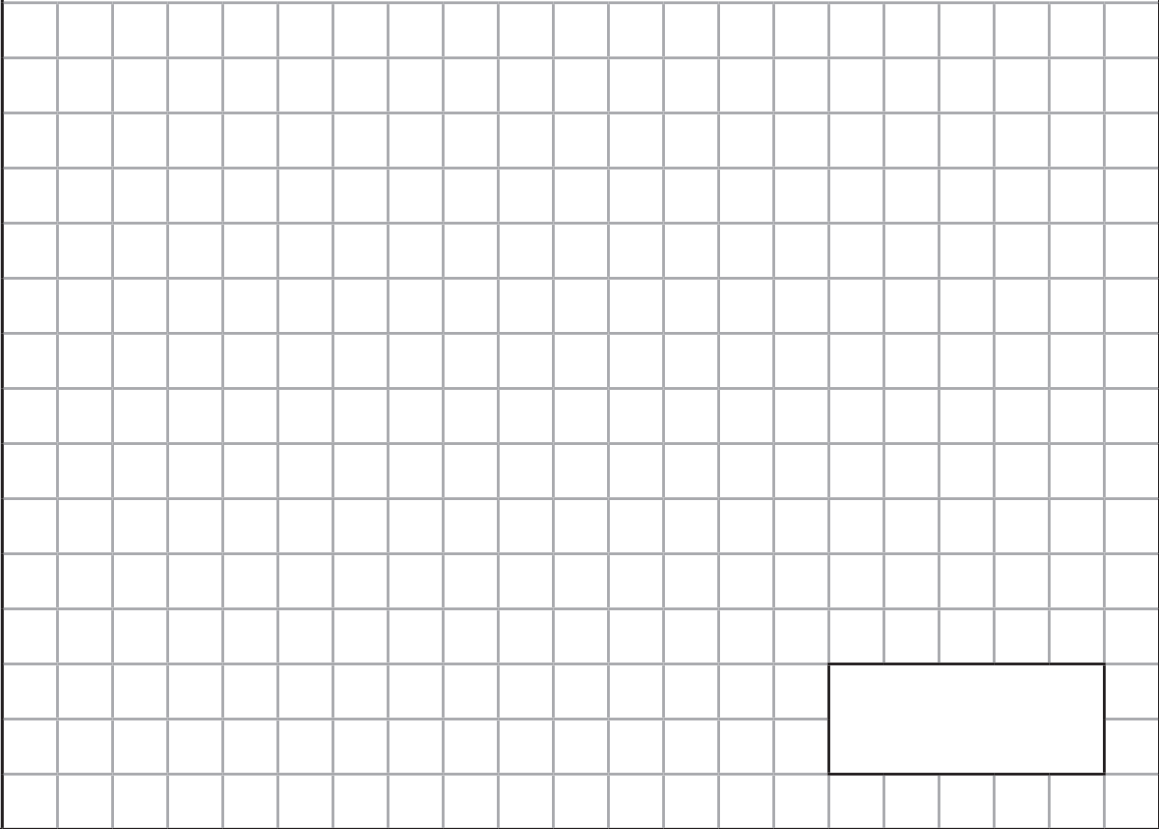
$$403 \div 31 =$$

A large grid area for working out the division problem. A small rectangular box is located at the bottom right of the grid for the final answer.



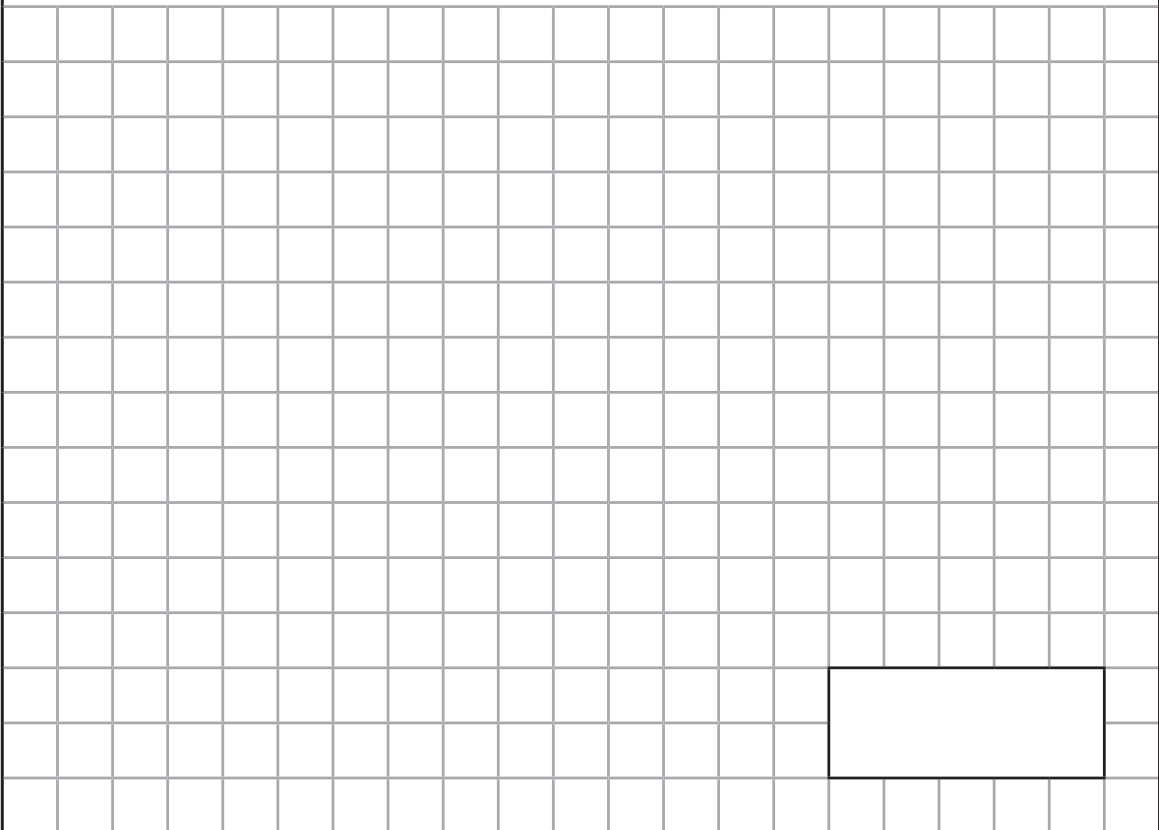
33

$$297 \div 27 =$$



34

$$1869 \div 89 =$$



35

$2232 \div 93 =$

A large grid for working out the division problem. The grid consists of 20 columns and 20 rows. A rectangular box is drawn in the bottom right corner of the grid, spanning from the 16th column to the 20th column and from the 13th row to the 16th row. On the right edge of the grid, there is a white circle on a grey background, positioned vertically between the 15th and 18th rows.

36

$5256 \div 73 =$

A large grid for working out the division problem. The grid consists of 20 columns and 20 rows. A rectangular box is drawn in the bottom right corner of the grid, spanning from the 16th column to the 20th column and from the 13th row to the 16th row. On the right edge of the grid, there is a white circle on a grey background, positioned vertically between the 15th and 18th rows.

Year 6 Arithmetic Quiz 3: Answers

- 9
- 25
- 49
- 8
- 27
- 125
- 78
- 1045
- 0
- 0
- 61
- 261
- 288
- 192
- 90
- 70
- 224
- 168
- 240
- 228
- 296
- 32096
- 20162
- 67164
- 32032
- 78225
- 71474
- 68
- 87
- 108
- 14
- 13
- 11
- 21
- 24
- 72

Year 6 Arithmetic Quiz 3

Multiply by 0 and 1, dividing by 1

Multiply any number by 0, and the answer is 0.

$$51 \times 0 = 0$$

Multiply any number by 1, and the answer is the number.

$$51 \times 1 = 51$$

Divide any number by 1, and the answer is the number.

$$51 \div 1 = 51$$

Multiplying 3 numbers

The numbers can be multiplied in any order. Multiply 2 numbers, then multiply the answer by the other number. This can be useful in making the subsequent calculation easier.

Multiply first



$$7 \times 2 \times 4 = 28 \times 2 = 56$$

Multiplication using formal methods

Multiplication by 1 digit

1. Multiply $9 \times 6 = 54$. Write the 4 in the ones place and the 5 (tens) under the tens place. (It can sometimes be helpful to label the columns to label the columns 1, T, H)
2. Multiply $4 \times 6 = 24$ (4 tens \times 6 tens = 24 tens = 240). Add the carried 5 tens. $24 + 5 = 29$ (24 tens + 5 tens = 29 tens). Write the 9 in the tens and 2 in the hundreds place.

		4	9	
	\times		6	
	2	9	4	
		5		

Multiplication by 2 digits

1. Calculate 4716×4 and write the answer in the first line under the calculation. (It can sometimes be helpful to label the columns 1, T, H, Th, TTh.)
2. Multiply $6 \times 4 = 24$. Write 4 in the ones place and the 2 above the tens place.
3. Multiply $1 \times 4 = 4$ (1 ten \times 4 ones = 4 tens). Add the 2 (tens), $4 + 2 = 6$ (4 tens + 2 tens = 6 tens) and write 6 in the tens place.
4. Multiply $7 \times 4 = 28$ (7 hundreds \times 4 ones = 28 hundreds). Write the 8 in the hundreds place and the 2 above the thousands.

		\times	\times			
			4	7	1	6
					2	4
		1	8	8	6	4
		9	4	3	2	0
	1	1	3	1	8	4
		1	1			

- Multiply $4 \times 4 = 16$ (4 thousands \times 4 ones = 16 thousands). Add the carried 2 (thousands), $16 + 2 = 18$ (16 thousand + 2 thousand = 18 thousand). Write 18 in the ten thousands and thousands places.
- Repeat the process with 4716×20 by writing the 0 in the ones place of the second line and multiplying $4716 \times 2 = 9432$. (Effectively multiplying by two then multiplying by 10.)
- Add $18864 + 94320 = 113184$

Division using formal methods

Short division

- $2 \div 4 = 0 \text{ r } 2$. Write the 2 next to the 1 (hundred). (It can sometimes be helpful to label the columns 1, T, H, Th.)
- $21 \div 4 = 5 \text{ r } 1$. Write the 5 in the hundreds place of the answer and the remaining 1 next to the 9.
- $19 \div 4 = 4 \text{ r } 3$. Write the 4 in the tens place of the answer and the remaining 3 next to the 6.
- $36 \div 4 = 9$. Write the 9 in the ones place of the answer.

			5	4	9	
	4	2	² 1	¹ 9	³ 6	

Long division

- $85 \div 23 = 3$. Write the 3 in the hundreds place of the answer. Write 69 (23×3) under the 85.
- Subtract $85 - 69 = 16$. Bring the 5 from the question down to make 165.
- $165 \div 23 = 7$. Write the 7 in the tens place of the answer. Write 161 (23×7) under the 165.
- Subtract $165 - 161 = 4$. Bring the 6 down from the question to make 46.
- $46 \div 23 = 2$. Write the 2 in the ones place of the answer.
(It can sometimes be helpful to make rough notes of the key multiples of the divisor from which further multiples can be derived. For example, $23 \times 2 = 46$; $23 \times 5 = 115$.)

			3	7	2	
	2	3	8	5	5	6
			6	9		
			1	6	5	
			1	6	1	
					4	6
					4	6
					0	0

Year 6 Arithmetic Quiz 4

Add and Subtract Fractions.

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

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

3 $\frac{7}{10} - \frac{1}{10} =$

Multiply fractions by whole numbers and fractions.

13

$$4 \frac{1}{3} \times 2 =$$



14

$$6 \times 4 \frac{1}{2} =$$



15

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



16

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



17

$$5 \times 3 \frac{5}{6} =$$



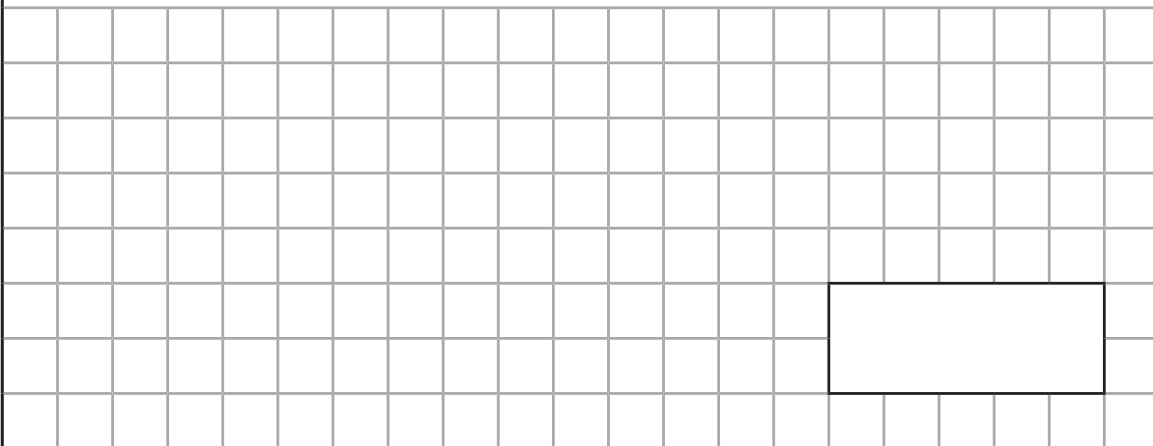
18

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



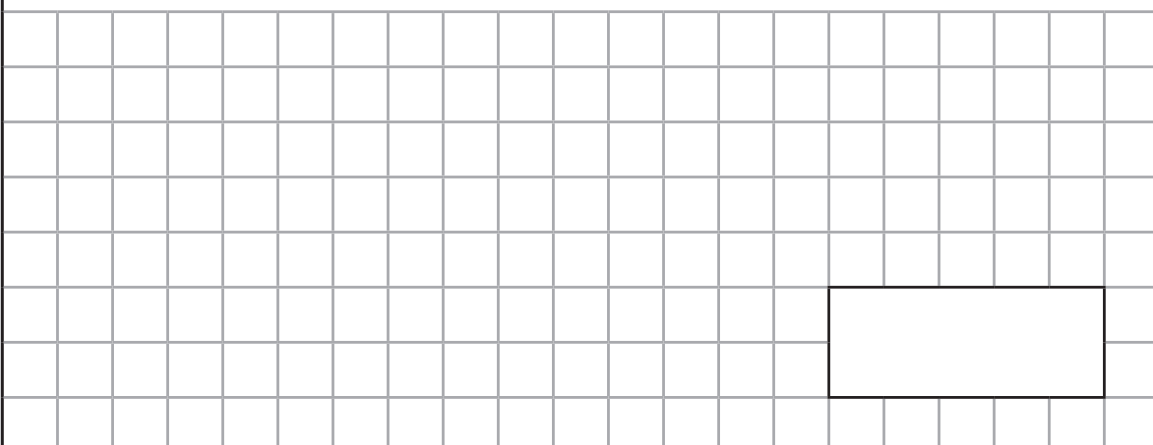
19

$$\frac{1}{4} \times \frac{1}{5} =$$

A large grid for working out the answer to problem 19. A rectangular box is provided for the final answer.

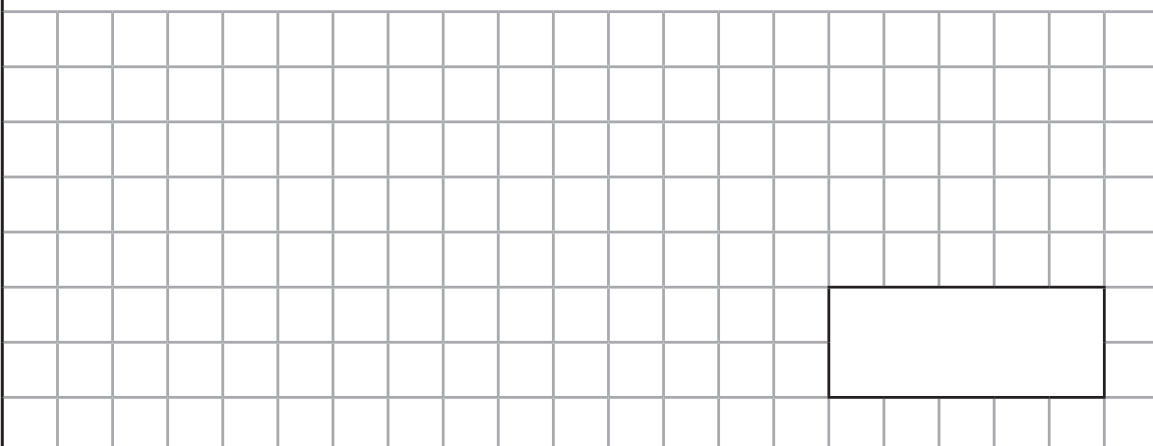
20

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

A large grid for working out the answer to problem 20. A rectangular box is provided for the final answer.

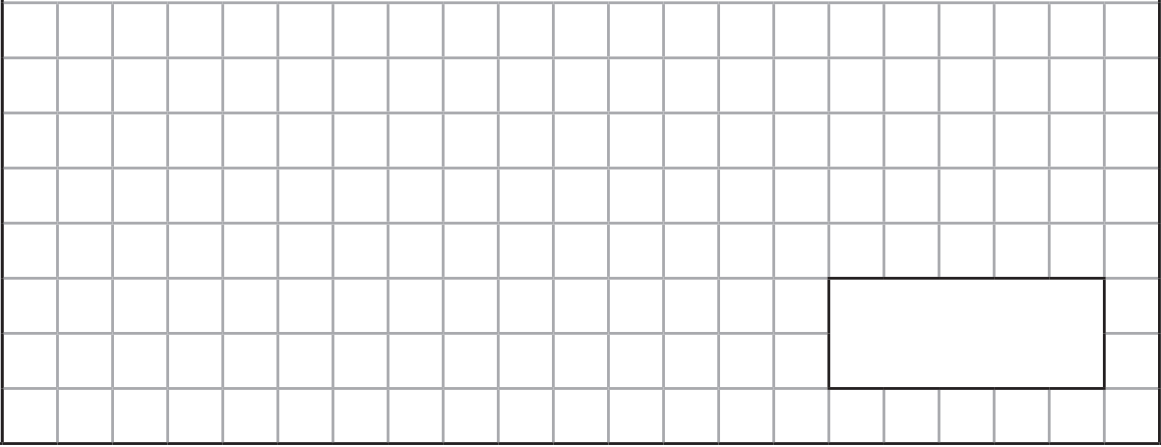
21

$$\frac{1}{3} \times \frac{1}{8} =$$

A large grid for working out the answer to problem 21. A rectangular box is provided for the final answer.

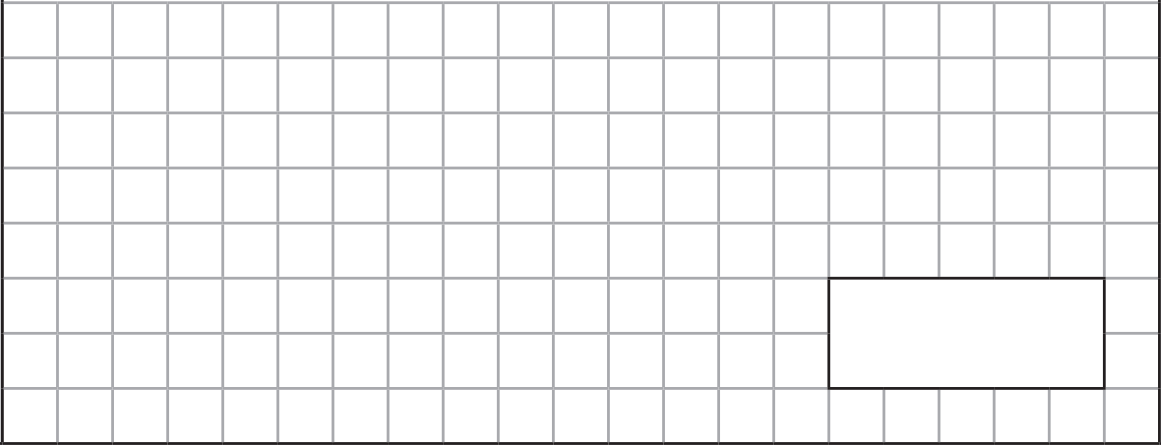
28

$$\frac{1}{6} \div 5 =$$



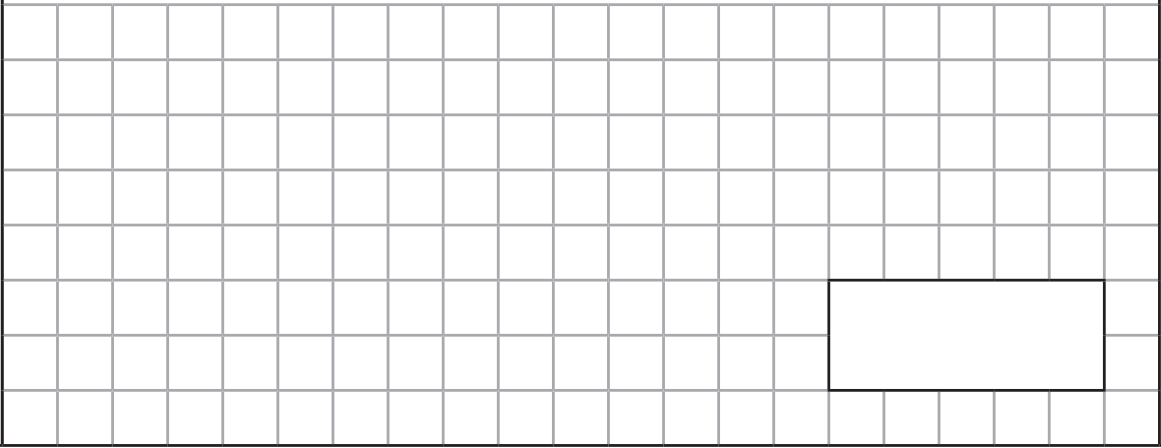
29

$$\frac{1}{4} \div 3 =$$



30

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



Year 6 Arithmetic Quiz 4: Answers

- $\frac{2}{5}$ or $\frac{4}{10}$
- $\frac{1}{2}$ or $\frac{4}{8}$
- $\frac{3}{5}$ or $\frac{6}{10}$
- $\frac{1}{4}$ or $\frac{2}{8}$
- $1\frac{3}{8}$
- $1\frac{1}{6}$
- $1\frac{27}{40}$
- $1\frac{3}{20}$
- $\frac{11}{20}$
- $\frac{1}{3}$
- $\frac{5}{72}$
- $\frac{3}{10}$
- $8\frac{2}{3}$
- 27
- $11\frac{1}{4}$
- $6\frac{4}{5}$
- $19\frac{1}{6}$
- $7\frac{1}{2}$
- $\frac{1}{20}$
- $\frac{1}{10}$
- $\frac{1}{24}$
- $\frac{2}{5}$
- $\frac{1}{10}$
- $\frac{21}{40}$
- $\frac{1}{8}$
- $\frac{1}{20}$
- $\frac{1}{9}$
- $\frac{1}{30}$
- $\frac{1}{12}$
- $\frac{1}{6}$
- $\frac{1}{27}$
- $\frac{1}{4}$
- $\frac{3}{40}$
- $\frac{3}{70}$
- $\frac{7}{24}$
- $\frac{2}{15}$

Year 6 Arithmetic Quiz 4

Add and Subtract Fractions

The numerator \rightarrow
The denominator \rightarrow

$$\frac{1}{2}$$

Adding and subtracting fractions with the same denominator:

Add or subtract the numerators, the denominator remains the same.

$$\frac{2}{5} + \frac{1}{5} = \frac{3}{5} \quad \text{and} \quad \frac{4}{5} - \frac{2}{5} = \frac{2}{5}$$

Adding and subtracting fractions with denominators that are multiples:

The denominator must be the same, so find the equivalent fractions with the same denominator. This will usually be by multiplying the numerator and denominator by the same number.

$$\frac{3}{10} + \frac{2}{5} = \frac{3}{10} + \frac{4}{10} = \frac{7}{10} \quad \text{and} \quad \frac{3}{4} - \frac{3}{8} = \frac{6}{8} - \frac{3}{8} = \frac{3}{8}$$

Adding and subtracting fractions using equivalent fractions:

The denominator must be the same, so sometimes both fractions are changed to equivalent fractions with the same denominator.

$$\frac{3}{4} + \frac{1}{5} = \frac{15}{20} + \frac{4}{20} = \frac{19}{20} \quad \text{and} \quad \frac{2}{3} - \frac{1}{5} = \frac{10}{15} - \frac{3}{15} = \frac{7}{15}$$

Multiply fractions by whole numbers and fractions

Multiplying the mixed numbers by whole numbers:

Multiply the whole numbers and multiply the fraction by the whole number. When multiplying the fraction by the whole number, multiply the numerator by the whole number. The denominator stays the same.

$$2 \frac{1}{4} \times 3 = 6 \frac{3}{4} \quad \text{because} \quad 2 \times 3 = 6 \quad \text{and} \quad \frac{1}{4} \times 3 = \frac{3}{4}$$

Multiplying fractions

Multiply the numerators and multiply the denominators:

$$\frac{2}{3} \times \frac{3}{5} = \frac{6}{15}$$

Divide proper fractions by whole numbers



To divide proper fractions by whole numbers, multiply the denominator by the whole number:

$$\frac{2}{3} \div 5 = \frac{2}{15}$$


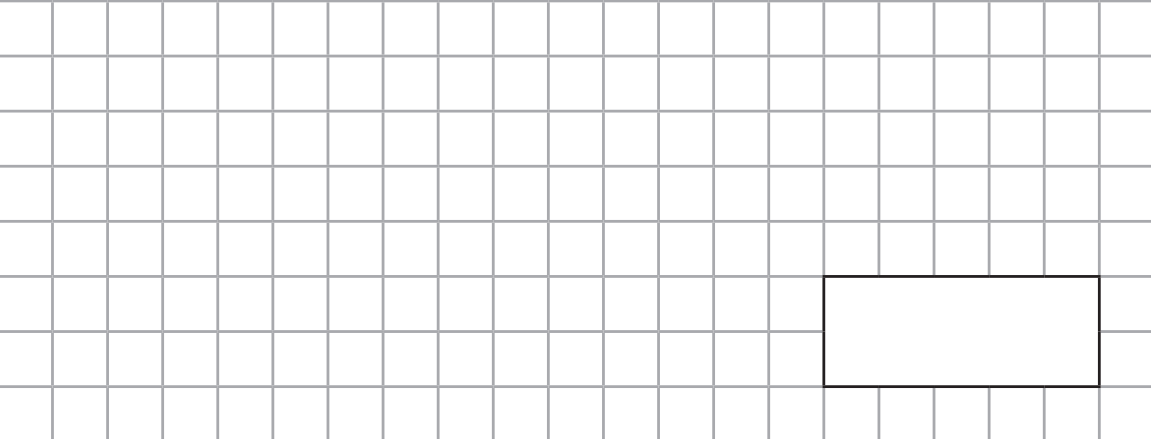
Year 6 Arithmetic Quiz 5

Add and subtract decimal numbers.


1 $5.4 + 0.8 =$



2 $8.1 + 0.4 =$

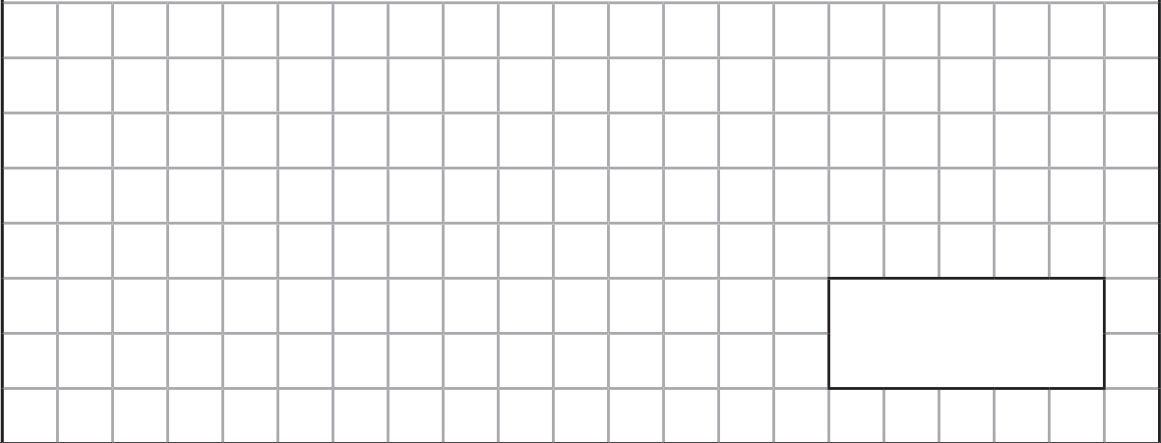


3 $8.2 - 0.1 =$



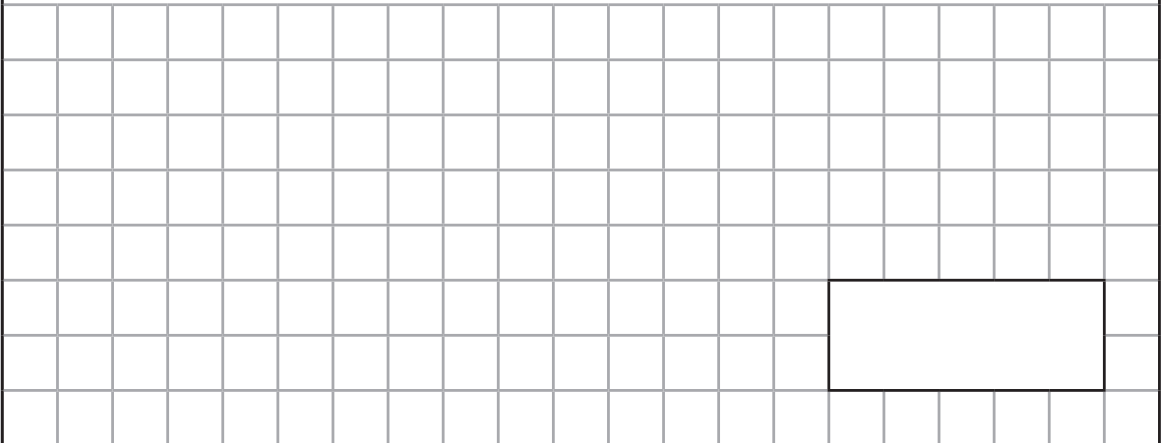
4

$$3.7 - 0.9 =$$



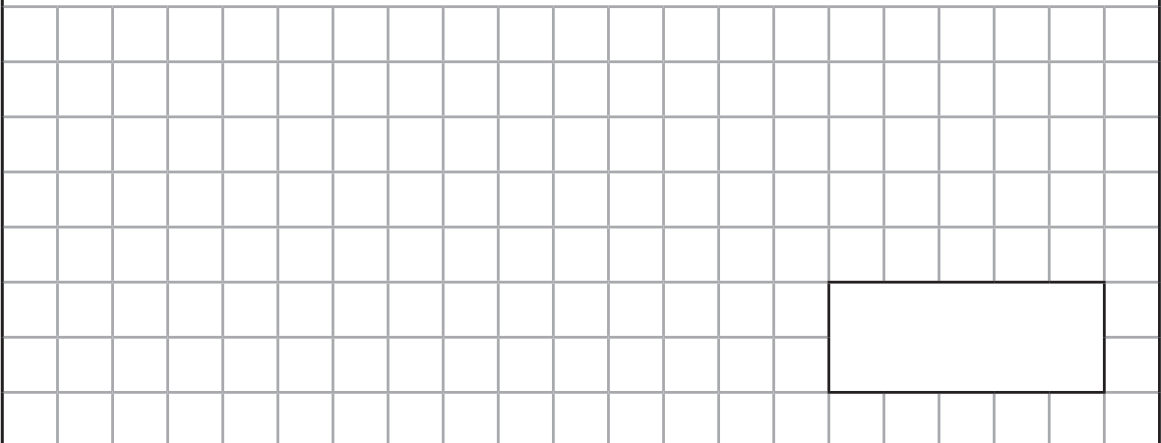
5

$$2.6 + 0.02 =$$



6

$$2.8 + 0.06 =$$



Multiply and divide by 10, 100 and 1000, including decimals.

13

$$4.901 \times 10 =$$

--

14

$$45.682 \times 10 =$$

--

15

$$5.26 \times 100 =$$

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Year 6 Arithmetic Quiz 5: Answers

1. 6.2
2. 8.5
3. 8.1
4. 2.8
5. 2.62
6. 2.86
7. 1.51
8. 4.16
9. 10.86
10. 4.47
11. 3.72
12. 5.56
13. 49.01
14. 456.82
15. 526
16. 602
17. 2620
18. 329
19. 0.271
20. 1.803
21. 4.73
22. 0.519
23. 0.214
24. 1.292
25. 61.5
26. 66
27. 17
28. 45
29. 135.25
30. 113.6
31. 46.34
32. 38.5
33. 517.8
34. 96.95
35. 92.85
36. 270.4

Year 6 Arithmetic Quiz 5

Add and Subtract Decimal Numbers

Some addition and subtraction will be done mentally, some using a formal columnar method. When the columnar method is used, the numbers must be lined up correctly.

$$4.7 + 0.6 = 5.3$$

$$1.7 + 0.08 = 1.78$$

$$7.2 + 1.94$$

Line up the two numbers using the columnar method and add.

		7	.	2	
	+	1	.	9	4
		9	.	1	4
		1			

Multiply and divide by 10, 100 and 1000, including decimals

When multiplying by 10, 100 and 1000 the number increases and the digits move to a new place value 1, 2 or 3 places accordingly.

When dividing by 10, 100 and 1000 the number decreases and the digits move to a new place value 1, 2 or 3 places accordingly.

$$3.4 \times 10 = 34$$

$$3.56 \times 100 = 356$$

$$0.984 \times 1000 = 984$$

$$67 \div 10 = 6.7$$

$$35.8 \div 100 = 0.358$$

$$452 \div 1000 = 0.452$$

Percentages of amounts

A percentage is a part out of 100. So 50% is 50 parts of an amount out of 100 parts. 50% is equivalent to one half.

25% is 25 parts of an amount out of 100 parts. 25% is equivalent to one quarter.

10% is 10 parts out of 100, which is equivalent to 1 part out of 10.

$$10\% \text{ of } 80 = 8$$

$$20\% \text{ of } 80 = 16 \text{ (because } 20\% \text{ is twice } 10\%)$$

$$25\% \text{ of } 80 = 20 \text{ (because } 25\% \text{ is one quarter)}$$

$$5\% \text{ of } 80 = 4 \text{ (because } 5\% \text{ is half } 10\%)$$

$$35\% \text{ of } 80 = 28 \text{ (because } 35\% \text{ is } 25\% + 10\% \text{ or } 10\% \times 3 + 5\%)$$