NTS Assessments

Second Edition

National Test-style Standardised Assessments

Mathematics

Year 2 AUTUMN

Paper 1: arithmetic

First name: Surname:

Test date	/	/			
Date of birth	/	/	Chronological age	years	months

Strand	Marks
Number (N)	/2
Calculations (C)	/18
Total marks (Paper 1)	**/20**
Total marks (Paper 2)	**/25**
Total marks (both papers)	**/45**

Scores for both papers*	
Standardised score	
Age-standardised score	
NTS Scale	
Maths age	

*These scores must be generated from the combined total score of both papers.

HODDER Education

Practice questions

a

$12 + 2 =$ ☐

2C2a

b

$12 + \square = 22$

2C2a

1

$19 + 1 =$ ☐

1N2b

1 mark

2

$7 + 12 =$ ☐

2C2b

1 mark

NTS Assessments

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Mathematics

Year 2 AUTUMN

Paper 2: reasoning

First name: Surname:

Test date	/	/			
Date of birth	/	/	Chronological age	years	months

Strand	Marks
Number (N)	/8
Calculations (C)	/13
Measurement (M)	/1
Geometry – properties of shape (G)	/3
Total marks	**/25**

HODDER Education

Max

Nia

Ruby

7 Tick (✓) the number that has **3 tens** and **6 ones**.

0	9
3	6
6	3
9	0

2N3
1 mark

8 Max has **8** coins.

Nia has **4** coins.

Ruby has **5** coins.

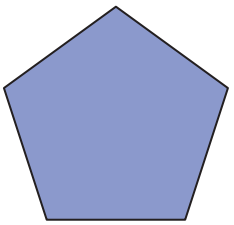
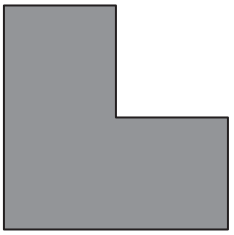
How many coins do they have **altogether**?

Show your working

coins

2C2b
2C4
2 marks

11 Complete the table.

Name	Shape	Number of sides
pentagon		
		6

2G2a

2 marks

12 Ruby and Max are skipping.

Ruby skips **63** times.

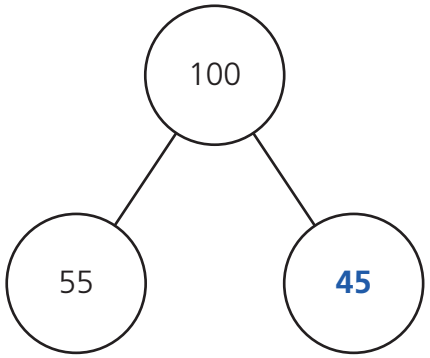
Max does **45** skips.

How **many more** skips does Ruby do than Max?

Show your working	skips

2C4

2 marks

Question number & content domain	Question & answer	Marking guidance	Mark	Facility %
6 2C1	Complete the part-whole model.  		1	24
7 2N3	Tick (✓) the number that has **3 tens** and **6 ones**. 0 9 ☐ 3 6 ☑ 6 3 ☐ 9 0 ☐	Second box indicated only for the award of **one** mark. Accept any other clear way of indicating the correct answer.	1	82

Question number & content domain	Question & answer	Marking guidance	Mark	Facility %
12 2C4	Ruby and Max are skipping. Ruby skips **63** times. Max does **45** skips. How **many more** skips does Ruby do than Max? **18** skips	Award **two** marks for a correct answer. Award **one** mark for a correct method, e.g. 63 – 45 = OR counting the difference (using a number line) from 45 to 63	2	56
13 2N1	Nia counts in steps of **5** She reaches **35** What are the next **three** numbers? **40** **45** **50**	**All three** answers needed for the award of **one** mark.	1	9

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Mathematics

Year 4 AUTUMN

Paper 1: arithmetic

First name: **Surname:**

Test date	/	/			
Date of birth	/	/	**Chronological age**	**years**	**months**

Strand	Marks
Number (N)	/4
Calculations (C)	/21
Fractions, decimals and percentages (F)	/5
Total marks (Paper 1)	**/30**
Total marks (Paper 2)	**/25**
Total marks (Paper 3)	**/25**
Total marks (all papers)	**/80**

Scores for all papers*	
Standardised score	
Age-standardised score	
NTS Scale	
Maths age	

*These scores must be generated from the combined total score of all 3 papers.

HODDER Education

Instructions

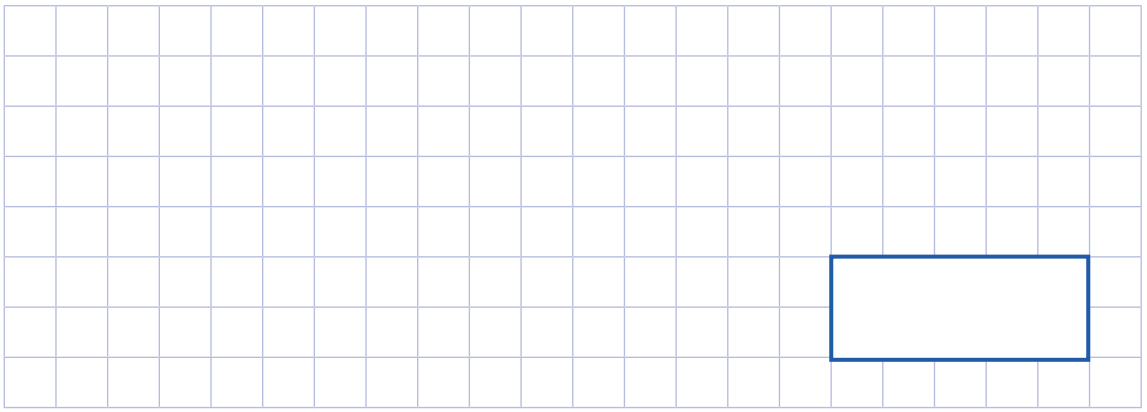
You **may not** use a calculator to answer any questions in this test.

Questions and answers

You have **25 minutes** to complete this paper.

Work as quickly and as carefully as you can.

Put your answer in the box for each question.



All answers should be given as a single value.

If you cannot do a question, **go on to the next one**. You can come back to it later if you have time.

If you finish early, **go back and check your work**.

Marks

All questions are worth **1 mark each**.

19

$3{,}472 + 1{,}000 =$

4N2b

1 mark

20

$\square = 7 \times 6$

4C6a

1 mark

21

$4{,}523 + 2{,}266 =$

4C2

1 mark

/3

Total for this page

NTS Assessments

Second Edition

National Test-style Standardised Assessments

Mathematics

Year 4 AUTUMN

Papers 2 and 3: reasoning

First name: **Surname:**

Test date	/ /		
Date of birth	/ /	**Chronological age**	**years** **months**

Paper 2

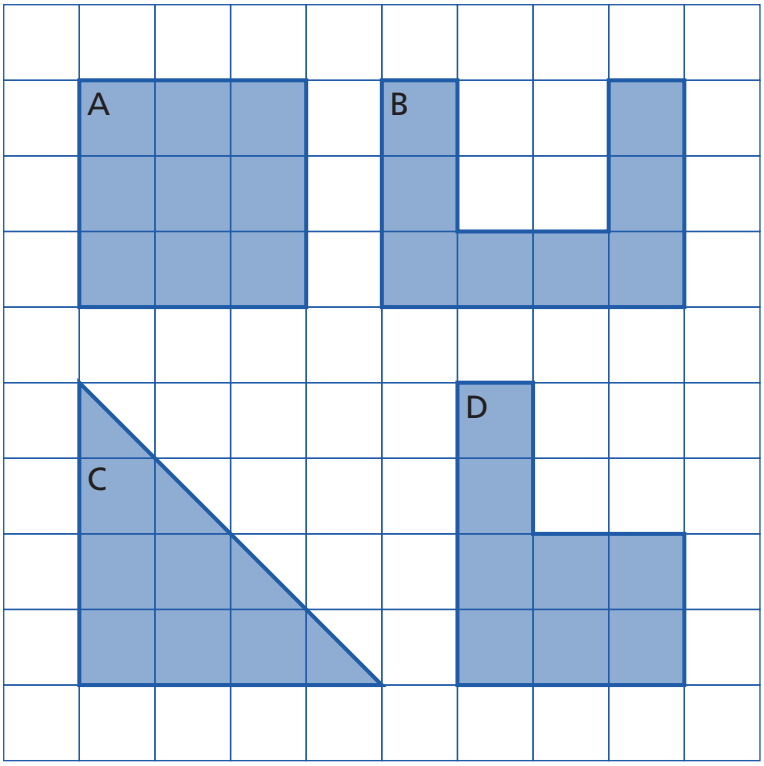
Strand	Marks
Number (N)	/11
Calculations (C)	/4
Measurement (M)	/9
Geometry – properties of shapes (G)	/1
Total marks	**/25**

Paper 3

Strand	Marks
Number (N)	/12
Calculations (C)	/5
Measurement (M)	/4
Geometry – properties of shapes (G)	/1
Statistics (S)	/3
Total marks	**/25**

HODDER Education

15 Four shapes are drawn on a square grid.



Which shape has the **greatest** area?

4M7b

1 mark

16 Write the following calculation as a 4-digit number.

$800 + 7 + 30 + 5{,}000 =$

4N3a

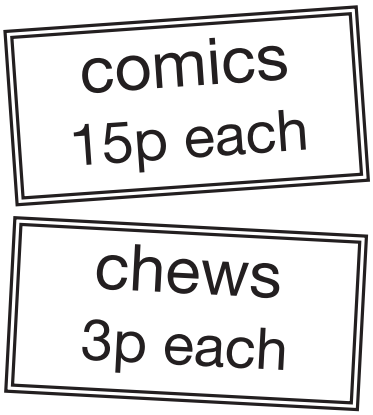
1 mark

/2

Total for this page

6 Kim buys a comic and 2 chews.

How much change does she get from **50p**?



Show your method

p

2M9

2 marks

7 Arun completes this calculation.

$72 \div 3 = 24$

Tick the **inverse** of Arun's calculation.

$24 \div 72 =$ ☐

$24 \times 3 =$ ☐

$72 \times 3 =$ ☐

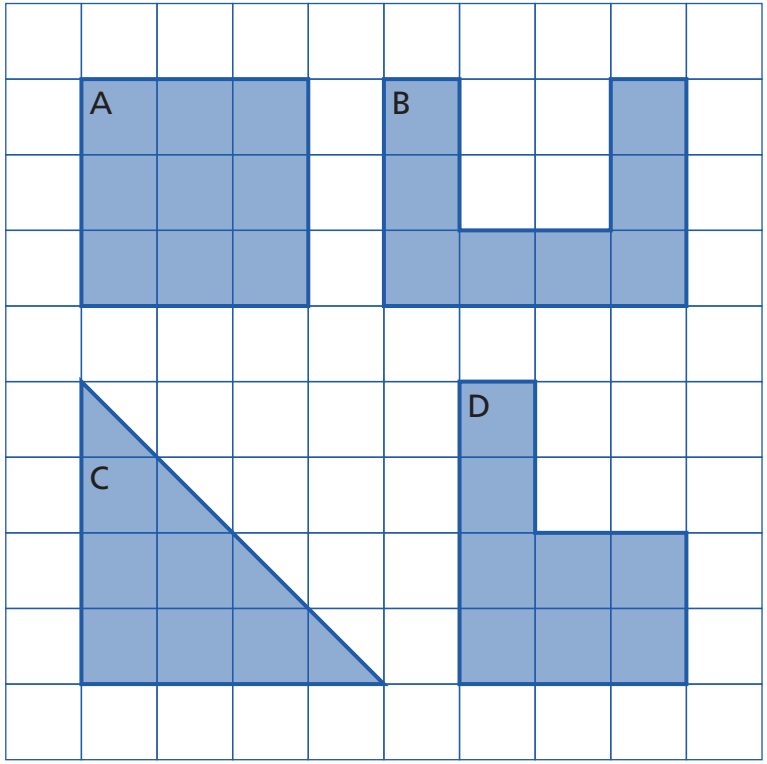
$24 \div 3 =$ ☐

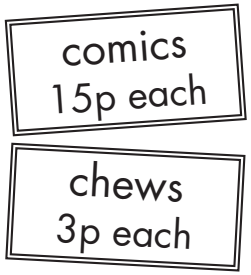
3C3

1 mark

/3

Total for this page

Question number & content domain	Question & answer	Marking guidance	Mark	Facility %
15 4M7b	Four shapes are drawn on a square grid.  Which shape has the **greatest** area? **A**	Accept shape A indicated only on the grid for the award of **one** mark.	1	53
16 4N3a	Write the following calculation as a 4-digit number. 800 + 7 + 30 + 5,000 = **5,837**	Ignore comma in answer if not placed or incorrectly placed, e.g. 58,37	1	65

Question number & content domain	Question & answer	Marking guidance	Mark	Facility %
6 2M9	Kim buys a comic and 2 chews. How much change does she get from **50p**?  **29** p	Award **two** marks for a correct answer. Award **one** mark for a correct method, e.g. 50 – (15 + 3 + 3) =	2	64
7 3C3	Arun completes this calculation. 72 ÷ 3 = 24 Tick the **inverse** of Arun's calculation. 24 ÷ 72 = ☐ 24 × 3 = ☑ 72 × 3 = ☐ 24 ÷ 3 = ☐	Accept positive indication of second box only for the award of **one** mark.	1	67

NTS Assessments

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National Test-style Standardised Assessments

Mathematics

Year 6 AUTUMN

Paper 1: arithmetic

First name: **Surname:**

Test date	/	/			
Date of birth	/	/	**Chronological age**	**years**	**months**

Strand	Marks
Number (N)	/4
Calculations (C)	/15
Fractions, decimals and percentages (F)	/11
Total marks (Paper 1)	**/30**
Total marks (Paper 2)	**/25**
Total marks (Paper 3)	**/25**
Total marks (all papers)	**/80**

Scores for all papers*	
Standardised score	
Age-standardised score	
NTS Scale	
Maths age	

*These scores must be generated from the combined total score of all 3 papers.

HODDER Education

Instructions

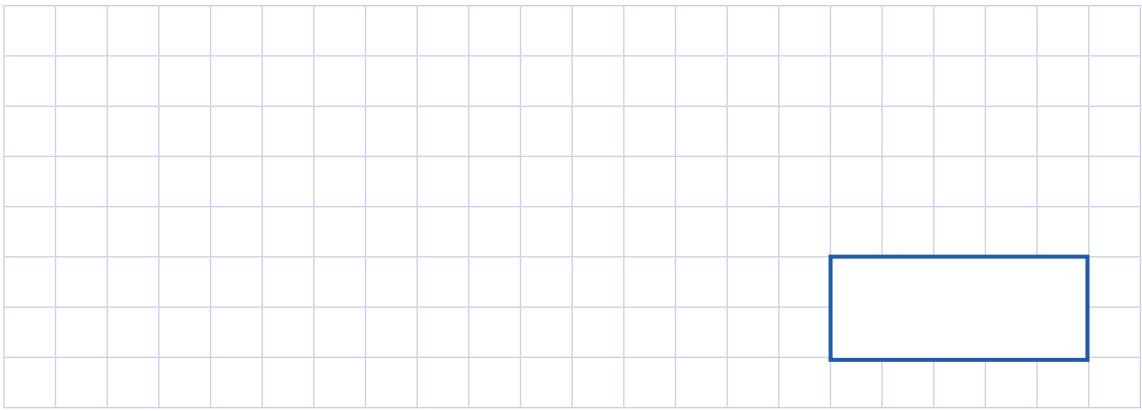
You **may not** use a calculator to answer any questions in this test.

Questions and answers

You have **25 minutes** to complete this paper.

Work as quickly and as carefully as you can.

Put your answer in the box for each question.



All answers should be given as a single value.

For questions expressed as common fractions or mixed numbers, you should give your answers as common fractions or mixed numbers.

If you cannot do a question, **go on to the next one**. You can come back to it later if you have time.

If you finish early, **go back and check your work**.

Marks

The number under each box at the side of the page shows you the maximum number of marks for each question.

In this paper, long division and long multiplication questions are worth **2 marks each**. You will be awarded 2 marks for the correct answer. You may get 1 mark for showing a formal method.

All other questions are worth **1 mark each**.

25

$$\begin{array}{r} 8\ 6 \\ \times\ 4\ 8 \\ \hline \end{array}$$

Show your method

6C7a

2 marks

26

$24 \overline{)768}$

Show your method

6C7b

2 marks

/4

Total for this page

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Mathematics

Year 6 AUTUMN

Papers 2 and 3: reasoning

First name: **Surname:**

Test date	/	/			
Date of birth	/	/	**Chronological age**	**years**	**months**

Paper 2

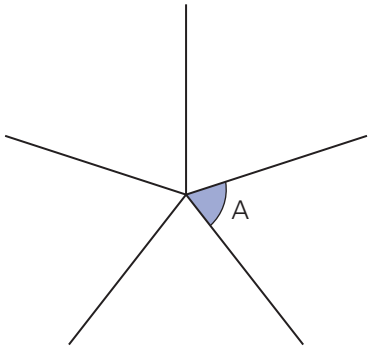
Strand	Marks
Number (N)	/8
Calculations (C)	/5
Fractions, decimals and percentages (F)	/4
Measurement (M)	/1
Geometry – properties of shapes (G)	/3
Geometry – position and direction (P)	/2
Statistics (S)	/2
Total marks	**/25**

Paper 3

Strand	Marks
Number (N)	/4
Calculations (C)	/4
Fractions, decimals and percentages (F)	/11
Measurement (M)	/4
Geometry – properties of shapes (G)	/1
Geometry – position and direction (P)	/1
Total marks	**/25**

HODDER Education

7 (a) Five equal angles are drawn around a point.

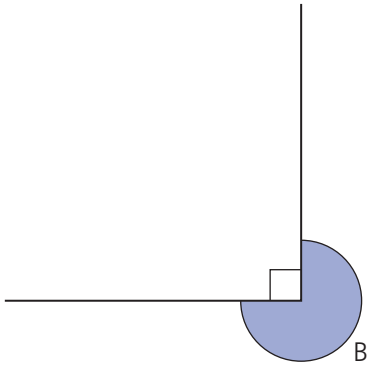


What is the size of the angle A?

° 5G4b

1 mark

(b) Two angles are drawn around a point.



What is the size of the angle B?

° 5G4b

1 mark

8 Here is a list of the trains that leave a station.

Destination	York	Leeds	Glasgow	Norwich	Dover	York	Liverpool	Dover
Time	13:15	13:30	14:25	15:20	15:50	15:55	16:35	17:25

How many trains leave between **2:00 p.m.** and **4:00 p.m**?

trains 5M4

1 mark

/3

Total for this page

11 (a) Kim collects basketball cards.

There are **100** cards in the full set.

Kim has collected **30** of the cards.

What **fraction** of the full set has Kim collected?

Write your answer as a fraction in the simplest terms.

6F2

1 mark

(b) Kim says, 'I have **30** cards. **24** of the cards are in colour.'

What **fraction** of Kim's cards are in colour?

Write your answer as a fraction in the simplest terms.

6F2

1 mark

12 There are some pieces of fruit in a box.

$\frac{1}{3}$ of the pieces of fruit are apples.

$\frac{3}{8}$ of the pieces of fruit are pears.

The rest of the pieces of fruit are bananas.

What **fraction** of the pieces of fruit are bananas?

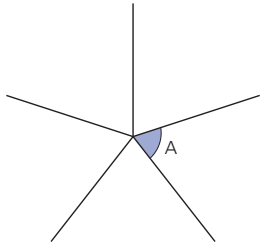
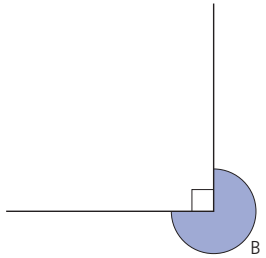
Show your method

6F4

2 marks

/4

Total for this page

Question number & content domain	Question & answer	Marking guidance	Mark	Facility %
7 5G4b	(a) Five equal angles are drawn around a point.  What is the size of the angle A? **72°** (b) Two angles are drawn around a point.  What is the size of the angle B? **270°**		(a) 1 (b) 1	37
8 5M4 (5S1 also covered)	Here is a list of the trains that leave a station. **Destination** | York | Leeds | Glasgow | Norwich | Dover | York | Liverpool | Dover **Time** | 13:15 | 13:30 | 14:25 | 15:20 | 15:50 | 15:55 | 16.35 | 17:25 How many trains leave between **2:00 p.m.** and **4:00 p.m**? **4** trains		1	46

Question number & content domain	Question & answer	Marking guidance	Mark	Facility %
11 6F2	(a) Kim collects basketball cards. There are **100** cards in the full set. Kim has collected **30** of the cards. What **fraction** of the full set has Kim collected? Write your answer as a fraction in the simplest terms. **$\frac{3}{10}$** (b) Kim says, 'I have **30** cards. **24** of the cards are in colour.' What **fraction** of Kim's cards are in colour? Write your answer as a fraction in the simplest terms. **$\frac{4}{5}$**	(a) **Do not** accept equivalent fractions, e.g. $\frac{30}{100}$ (b) **Do not** accept equivalent fractions, e.g. $\frac{24}{30}$	(a) 1 (b) 1	28
12 6F4	There are some pieces of fruit in a box. **$\frac{1}{3}$** of the pieces of fruit are apples. **$\frac{3}{8}$** of the pieces of fruit are pears. The rest of the pieces of fruit are bananas. What **fraction** of the pieces of fruit are bananas? **$\frac{7}{24}$**	Award **two** marks for a correct answer. Award **one** mark for a correct method, e.g. $\frac{1}{3} + \frac{3}{8} = \frac{17}{24}$ $1 - \frac{17}{24} =$	2	41