No Nonsense
Maths

10–11
years

Calculations

1. **Circle the correct answers.**

   a 127 + 387 = odd / even   **b** 489 + 123 = odd / even

   c 1 385 + 2 548 = odd / even   **d** 5 434 + 2 439 = odd / even

   e 3 782 + 345 = odd / even   **f** 8 458 + 286 = odd / even

2. **Draw lines between the pairs of calculations.**

   a 324 + 102 = 426   201 + 123 = 324

   b 324 – 201 = 123   324 – 102 = 222

   c 222 + 102 = 324   426 – 324 = 102

Lesson 2

Number sequences and properties

1. **What is the rule for each of these number sequences?**

a

343	327	311	295	279	263	247	231	215	199	183	167

Rule: _____

b

1.25	1.5	1.75	2	2.25	2.5	2.75	3	3.25	3.5	3.75	4

Rule: _____

0 Tough	OK	Got it! 11

Total

11

Addition and subtraction

1. Find the total of...

a 56 938, 231 and 39 359. _____

b £0.38, £3.21 and £11.47. _____

c 23 cm, 2 m, 120 mm and 4.5 m. _____

2. Find the difference between...

a 350 g and 1.2 kg. _____

b 1420 m and 2.3 km. _____

c 27 minutes and 3 hours 15 minutes. _____

Short and long multiplication

1. Solve this problem using short multiplication.

There are 29 children in each class at St Wilfrid's Primary School. × ____

How many children in 7 classes? _____

2. Solve this problem using long multiplication.

There are 245 paper clips in a box. × _____
How many paper clips will there be in 32 boxes?

_____

_____

0	Tough	OK	Got it!	8

Total

8

Lesson 5

Times tables to 10

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1. Complete this multiplication grid as quickly as you can.

×	5	3	8	10	7	6
9						
4						
2						
0						
8						

Lesson 6

Mode, median and mean

1. Calculate the mode, median and mean of these sets of numbers.

a 5   8   3   7   9   4   5   6   6   7

____ ____ ____ ____ ____ ____ ____ ____ ____

Mode = _____   Median = _____   Mean = _____

b 12   18   19   11   14   12   18   13   16   17

____ ____ ____ ____ ____ ____ ____ ____ ____ ____

Mode = _____   Median = _____   Mean = _____

0	Tough	OK	Got it! 3

Total

3

Equivalent fractions

---

1. Write these fractions in their equivalent groups. Then add three more equivalent fractions.

$$\frac{6}{12} \quad \frac{15}{20} \quad \frac{99}{198} \quad \frac{16}{40} \quad \frac{30}{40} \quad \frac{6}{15} \quad \frac{85}{190} \quad \frac{24}{32} \quad \frac{46}{115} \quad \frac{32}{64} \quad \frac{72}{96} \quad \frac{22}{55}$$

a $\frac{1}{2}$ ____ ____ ____ ____ ____ ____ ____

b $\frac{3}{4}$ ____ ____ ____ ____ ____ ____ ____

c $\frac{4}{10}$ ____ ____ ____ ____ ____ ____ ____

Lesson 8

Decimals

1. Continue these patterns.

a

5.35	5.37			5.43		5.47	

b

11.66	11.62	11.58			11.46		

2. Round to the nearest whole number.

a 5.26 _____ **b** 8.67 _____ **c** 9.58 _____

d 10.29 _____ **e** 12.72 _____ **f** 16.45 _____

0 Tough OK Got it! 11

Total
11

Co-ordinates

1. **Place neat crosses on the grid for the co-ordinates listed. Join them up in order.**
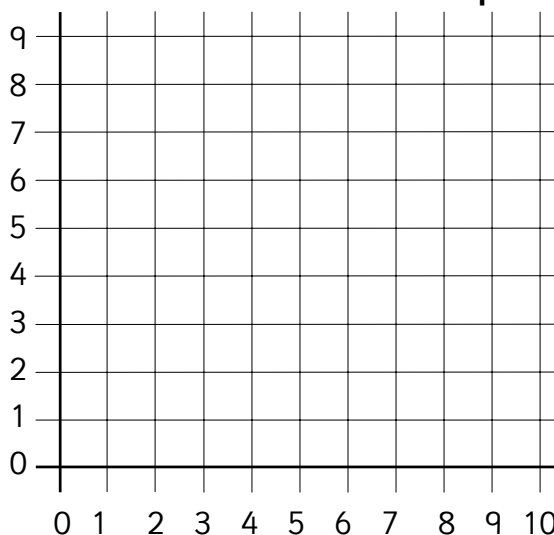
   (5, 9)

   (6, 6)

   (9, 5)

   (6, 4)

   (5, 1)

   (4, 4)

   (1, 5)

   (4, 6)

   What have you drawn? _____

Negative numbers

1. **Put these integers in order, smallest first.**

   a   4   –3   8   –2   0   –4

   _____ _____ _____ _____ _____ _____

   b   16   –6   –11   1   6   –1

   _____ _____ _____ _____ _____ _____

2. **Solve these problems.**

   a The temperature is –7°C. It rises by 11°C.

   What is the temperature now? _____

   b The temperature is –11°C. It rises by 7°C.

   What is the temperature now? _____

0		12
Tough	OK	Got it!

Total

/12

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Multiplication involving decimals

---

1. Complete these number sentences.

a 6.3×5 (_____ × _____) = _____

(_____ × _____) = _____

_____

b 3.8×7 (_____ × _____) = _____

(_____ × _____) = _____

_____

c 7.6×6 (_____ × _____) = _____

(_____ × _____) = _____

_____

d 2.7×8 (_____ × _____) = _____

(_____ × _____) = _____

_____

Lesson 12

Division

---

1. Divide...

a $6 \overline{)\ 3\ 4\ 2}$

b $8 \overline{)\ 5\ 7\ 4}$

c $9 \overline{)\ 6\ 3\ 7}$

d $4 \overline{)\ 2\ 5\ 8}$

e $3 \overline{)\ 1\ 0\ 5}$

f $5 \overline{)\ 4\ 6\ 5}$

g $12 \overline{)\ 3\ 8\ 4}$

h $16 \overline{)\ 3\ 8\ 4}$

---

0   Tough   OK   Got it!   12

Total

12

Fractions of numbers

---

1. What is...

a $\frac{1}{4}$ of 32? _____

b $\frac{1}{10}$ of 80? _____

c $\frac{1}{3}$ of 27? _____

d $\frac{1}{8}$ of 56? _____

e $\frac{1}{6}$ of 48? _____

f $\frac{1}{9}$ of 36? _____

2. What fraction of...

a 1 hour is 10 minutes? _____

b £10.00 is £1.00? _____

c 20 minutes is 4 minutes? _____

d 1 m is 20 cm? _____

Lesson 14

Percentages

1. Without looking at your No Nonsense Maths book, complete this table.

	Fraction	Decimal	Percentage
a	1		
b			50%
c		0.25	
d			10%
e	$\frac{1}{100}$		

0	Tough	OK	Got it!	15

Total

15

Reflective symmetry

---

1. **Finish these shapes using the lines of symmetry shown.**

a   **b**   **c**

Lesson 16
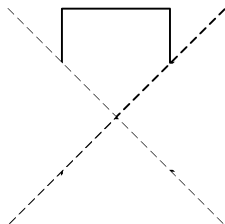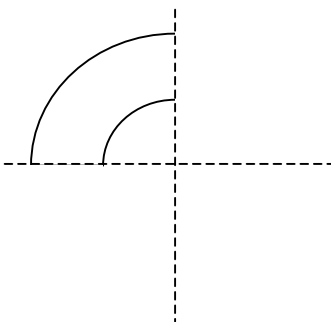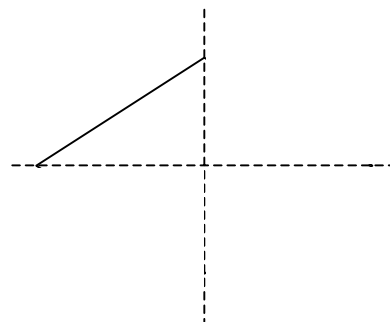
Length, mass and capacity

---

1. **What is the abbreviation for...**

a millilitres? _____   **b** grams? _____   **c** litres? _____

d centilitres? _____   **e** metres? _____   **f** centimetres? _____

g kilometres? _____   **h** kilograms? _____   **i** millimetres? _____

2. **Solve this problem.**

How much orange juice needs to be added to 1 450 ml to make 2.5 l altogether?

_____

0   Tough   OK   Got it!   13

Total

13

Solving problems

1. **Use a calculator to help you solve these problems.**

   a The answer is 7.083333333.
   Using two 2-digit whole numbers and a ÷ sign, write the number sentence with this answer.

   _____

   b The answer is 988.
   Using two 2-digit whole numbers and a × sign, write the number sentence with this answer.

   _____

Lesson 18

Line graphs

1. **Answer these questions about the graph on page 38 of your No Nonsense Maths book.**

   a How much did Najib grow between 2 years and 7 years? _____

   b Between which two years did Najib grow the most? _____ and _____

   c How old was Najib when he reached twice the height he was at 2 years old? _____

   d How many centimetres did Najib grow between the ages of 1 and 4? _____

   e How old was Najib when he was 1.5 m tall? _____

   f During which years did Najib grow the most slowly? _____

0   Tough   OK   Got it!   8

Total

8

Ordering numbers

---

1. Order these measurements, smallest first.

a 2.3 km   23 km   0.23 km   2.33 km   3.2 km   32 km

_____   _____   _____   _____   _____   _____

b 46 cl   64 cl   4.6 cl   6.4 cl   4.64 cl   6.44 cl

_____   _____   _____   _____   _____   _____

c 678.23 m   786.32 m   768.32 m   687.23 m   678.32 m   876.32 m

_____   _____   _____   _____   _____   _____

Lesson 20

Square and triangular numbers

1. Investigate what happens when you add together two consecutive triangular numbers.

The sum of two consecutive triangular numbers is always _____

0			4
Tough	OK	Got it!	

Total

4 / 4

Factors, multiples and prime numbers

1. Ring the numbers in the box that are factors of...

a 24

| 3 | 12 | 5 | 4 | 8 | 14 | 9 |

b 30

| 5 | 7 | 2 | 3 | 8 | 10 | 4 |

2. Ring the numbers in the box that are multiples of...

a 4

| 18 | 32 | 16 | 38 | 22 | 24 | 88 |

b 8

| 33 | 24 | 64 | 42 | 20 | 104 | 94 |

Lesson 22

Estimation

1. Estimate 5 things you would be able to do if you had 750 000 seconds.

_____ ☐

_____ ☐

_____ ☐

_____ ☐

_____ ☐

Now check – would you have enough time to do these things?

0   Tough   OK   Got it!   5

Total

5

Lesson 23
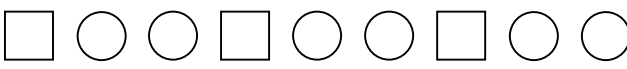
Ratio and proportion

1. **Write the ratio of circles to squares in these patterns.**

   a □ ○ ○ □ ○ ○ □ ○ ○   _____ to every _____

   b □ □ □ □ ○ □ □ □ □ ○   _____ to every _____

   c □ □ □ ○ □ □ □ ○   _____ to every _____

2. **Now write the proportion of squares to circles in each of the patterns in 1.**

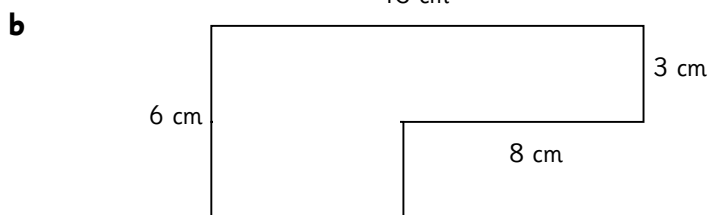   **a** _____   **b** _____   **c** _____

Lesson 24

Perimeter and area

1. **Find the perimeter and area of these shapes.**

   a
   7 cm
   8 cm
   11 cm
   11 cm

   b
   13 cm
   3 cm
   6 cm
   8 cm
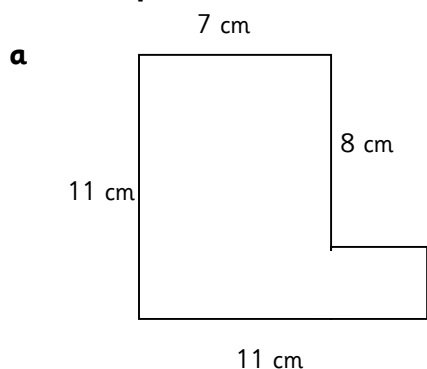
   Perimeter =   Perimeter =

   Area =   Area =
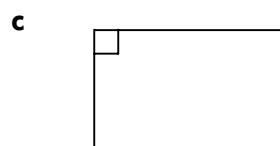
| 0 | Tough | OK | Got it! | 8 |

Total
8

Angles

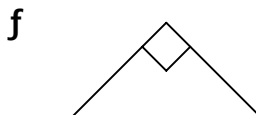1. **Label the angles acute, obtuse, reflex or right angles.**

a
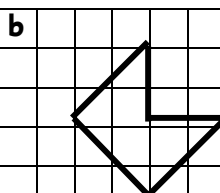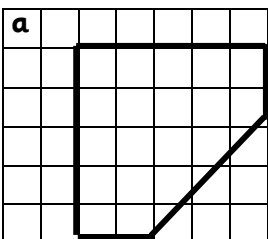
_____

b

_____

c

_____

d

_____

e

_____

f

_____
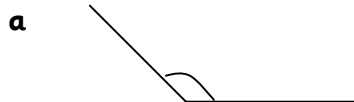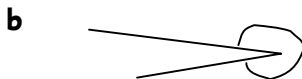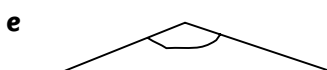
Shapes

1. **Draw shapes congruent to the ones given.**

a

b

	Tough	OK	Got it!	
0				8

Total

8

Problems with money

1. **Solve this problem.**

   a While they were on holiday the McCree family bought four bucket that cost 85p each, two spades that cost £1.05 each, an inflatable ring that cost £3.75 and four sunhats that cost £4.50 each.

   How much did they spend altogether?

   _____

Lesson 28

Probability

1. **Write statements of your own to match the probability words.**

   a Certain: _____

   b Likely: _____

   c Unlikely: _____

   d Impossible: _____

   e Possible: _____

| 0 | Tough | OK | Got it! | 6 |

Total

/6