



RUSKIN
A PRIORY ACADEMY

Year 6 - 7

Maths Transition

Booklet

The Maths department wanted to send you a big hello and say how excited they are to meet you all in September!

We know it has been a strange time for you, and we are going to miss meeting you in the Summer term, so we thought you might like some maths challenges to have a go at before you arrive. You can either print it out or if this is not possible, complete the tasks on a piece of paper. You can hand this in to your maths teacher in September and receive some rewards – so, just have a go!

Name: _____

The way I do my calculations

Addition

$437 + 49$

$37.46 + 27.3$



Calculations

A $2 + 6$	B $12 + 24$	C $91 + 81$	D $74 + 28$
E $98 + 55$	F $\square + 33 = 97$	G $179 + 361$	H $894 + 317$
I $520 + \square = 844$	J $3.1 + 5.2$	K $3.5 + \square = 4.8$	L $12.45 + 7.46$
M $35 + 45.67$	N $5.1 + 7.12 + 15.8$	O $26.74 + 58.3$	P $63.8 + 23.71 + 5$

Worded Problems

1. If the Eifel tower is 298m tall and the London Shard is 309m. What is their combined height?

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2. James has £467 in the bank, he pays what is left of his birthday money to it. If he pays in his £45.57, how much does he have in total?

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3. Ryan goes shopping. In the first shop he spends £66.73, in the second £25, the third £156 and £14.56 in the last shop. How much money does he spend total?

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Spot the mistake.

$\begin{array}{r} + 238 \\ 1487 \\ \hline 3867 \end{array}$	$\begin{array}{r} + 238 \\ 526 \\ \hline 754 \end{array}$
$\begin{array}{r} + 5 \\ 2.3 \\ \hline 2.8 \end{array}$	$\begin{array}{r} + 438 \\ 21.6 \\ \hline 65.4 \end{array}$

The way I do my calculations

Subtraction

$440 - 61$

$432 - 187$



Calculations

A $8 - 3$	B $36 - 24$	C $47 - 18$	D $74 - 56$
E $100 - 58$	F $\square - 33 = 45$	G $798 - 268$	H $1012 - 389$
I $844 - \square = 541$	J $8.7 - 6.5$	K $3.5 - \square = 1.2$	L $\square - 3.6 = 9.7$
M $74.63 - 17.21$	N $6 - 2.4$	O $78.54 - 13.6$	P $586 - 85.31$

Worded Problems

1. The London Eye is 117m tall and BT tower is 190m tall. How much taller is the BT tower than the London Eye?

2. If the distance from Cardiff to London is 172miles and Amy has driven 87 miles. How many miles has Amy got left before she reaches London?

3. Alex is checking the addition of 2 numbers. The ANSWER is 843, one of the numbers is 591, what is the other number in the sum?


Spot the mistake.

$\begin{array}{r} 6783- \\ 47 \\ \hline 2383 \end{array}$	$\begin{array}{r} 567 - \\ \underline{138} \\ 431 \end{array}$
$\begin{array}{r} 83.69 - \\ \underline{782.7} \\ 54.2 \end{array}$	$\begin{array}{r} 8532- \\ \underline{23.1} \\ 830.1 \end{array}$

The way I do my calculations

Multiplication

234×3 42×27



Calculations

A 8×7	B 12×10	C 11×12	D 134×2
E $\square \times 4 = 56$	F 361×5	G 426×4	H $243 \times \square = 486$
I 672×7	J 2456×5	K 24×12	L 68×47
M 384×67	N 34.5×3	O 57.24×3	P 465.78×8

Worded Problems

1. How many days in 17 weeks?

2. If eggs are packed in boxes of 6. How many eggs altogether in 248 boxes?

3. Dylan gets paid £5.75 every evening to do a paper round. How much does he earn if he completes the round every evening in May?


Spot the mistake.

$\begin{array}{r} 45x \\ 3 \\ \hline 1215 \end{array}$	$\begin{array}{r} 85.35x \\ 6 \\ \hline 51210 \end{array}$
$\begin{array}{r} 38.4x \\ 6 \\ \hline 23.04 \end{array}$	$\begin{array}{r} 352x \\ 4 \\ \hline 1409 \end{array}$

The way I do my calculations

Division

159 ÷ 3 476 ÷ 17



Calculations

A 8 ÷ 2	B 35 ÷ <input type="text"/> = 5	C 36 ÷ 9	D <input type="text"/> ÷ 7 = 8
E 72 ÷ 3	F <input type="text"/> ÷ 8 = 13	G 130 ÷ 10	H 168 ÷ 7
I 52 ÷ <input type="text"/> = 4	J 258 ÷ 8	K 121 ÷ <input type="text"/> = 11	L 1655 ÷ 5
M 2392 ÷ 4	N 12.45 ÷ 5	O 145.18 ÷ 2	P 6205.35 ÷ 3

Worded Problems

1. James, Simon and Angela win £771 between them in a draw. How much money do they each get?

2. 3600 football supporters want to go to an away game together. A coach holds 50 passengers. How many coaches would they need to all go to the game?

3. Fin buys sherbet straws from the newsagents. They cost 4p each and he spends £1.12. How many straws has he bought?

Spot the mistake.

$\begin{array}{r} 201 \\ 3 \overline{) 623} \end{array}$	$\begin{array}{r} 1095 \\ 5 \overline{) 547.5} \end{array}$
$\begin{array}{r} 31 \\ 3 \overline{) 903} \end{array}$	$\begin{array}{r} 14 \\ 9 \overline{) 135} \end{array}$

Colour by Number

Instructions

Calculate each answer then use the key to shade each section in the correct colour.

Red	0-100
Yellow	101-200
Orange	201-300
Blue	301 or more

Math problems scattered throughout the graphic:

- $1056.12 - 725$
- $129 + 274$
- $2507 + 8$
- $488 - 152.4$
- $189.6 + 112$
- 16×23
- $726 + 2$
- $1444.4 + 4$
- $254 + 162$
- 24×29
- $142 + 176$
- $124.2 + 179$
- $5508 - 151$
- 13×32
- 14×4
- $126 + 39$
- $863 - 587$
- $5268 - 4915$
- 13×15
- 23×9
- $96 + 4$
- $195 + 3$
- 132×2.5
- $9 \times 3 \times 12$
- $1026 - 696$
- $789 - 467$
- $946 + 8$
- $122 + 112$
- $1865 + 5$
- $1098 - 687$
- $1968 + 4$
- $756.4 + 2$
- $863 - 592$
- $8652 + 25$
- $952 + 2$
- $960 + 3$
- $933 + 3$
- 34×9
- $418 - 394$
- $174 + 162$
- $857 + 5$
- $5600 + 25$
- $250 + 8$
- $337 - 213$
- $129 + 147$
- $6352 - 5917$
- $127 + 198$
- $14 \times 2 \times 14$
- $4832 + 16$
- $625 - 313$
- $7038 + 23$
- $756.8 - 438$
- $5214 - 4657$
- 25×13

The Value of Words

Instructions

Use the key to calculate the value of each word, in pounds. The first question has been completed for you.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
50p	£1.03	£0.62	£0.15	10p	72p	22p	£0.15	£0.08	£1.21	£2.50	£1.08	42p	£0.78	£0.05	£1.65	£3.00	45p	68p	£0.18	95p	£0.27	£1.11	£1.85	£2.05	£2.88

1	NUMBER	$£0.78 + 95p + 42p + £1.03 + 10p + 45p = £3.73$
2	ALGEBRA	
3	PROBABILITY	
4	STATISTICS	
5	GEOMETRY	
6	RATIO	
7	MEASURE	
8	OPERATION	
9	ADDITION	
10	SUBTRACTION	
11	MULTIPLICATION	
12	DIVISION	

13 SUM	
14 TOTAL	
15 PRODUCT	
16 CALCULATOR	

Extension

- Does the longest word have the largest value?

- Does the shortest word have the smallest value?

- Create a mathematical word which has a bigger value than any of the words in the list.

Times Table and Division Challenge

Complete each question without a calculator.

4×5	
9×8	
7×2	
12×11	
10×9	
13×3	
2×12	
4×6	
7×8	
2×11	
9×7	
11×9	
8×4	
12×9	
5×6	
7×4	
3×8	
9×6	
8×1	
0×7	

$108 \div 9$	
$72 \div 6$	
$35 \div 5$	
$40 \div 8$	
$28 \div 4$	
$66 \div 11$	
$144 \div 12$	
$36 \div 2$	
$45 \div 5$	
$99 \div 9$	
$120 \div 10$	
$84 \div 6$	
$96 \div 8$	
$48 \div 6$	
$49 \div 7$	
$21 \div 3$	
$16 \div 2$	
$12 \div 4$	
$15 \div 5$	
$60 \div 12$	

2×13	
3×12	
11×7	
6×12	
8×5	
5×12	
15×2	
3×20	
2×18	
3×4	
4×4	
0×5	
2×6	
3×9	
7×12	
13×11	
10×9	
15×10	
13×4	
2×14	

$65 \div 5$	
$2 \div 2$	
$8 \div 4$	
$25 \div 5$	
$56 \div 8$	
$77 \div 11$	
$117 \div 9$	
$132 \div 12$	
169×13	
$156 \div 12$	
$35 \div 7$	
$42 \div 6$	
$54 \div 9$	
$63 \div 7$	
$48 \div 4$	
$30 \div 5$	
$40 \div 10$	
$88 \div 8$	
$130 \div 10$	
$121 \div 11$	

Addition and Subtraction Challenge

Complete each question without a calculator.

$45 + 101$	
$23 + 27$	
$68 + 43$	
$112 + 45$	
$145 + 62$	
$132 + 98$	
$43 + 56$	
$98 + 35$	
$114 + 232$	
$101 + 98$	
$85 + 67$	
$42 + 55$	
$109 + 156$	
$246 + 398$	
$312 + 497$	
$458 + 984$	
$1092 + 48$	
$456 + 86$	
$549 + 290$	
$236 + 641$	
$1032 + 1067$	

$67 - 34$	
$98 - 55$	
$104 - 89$	
$256 - 87$	
$567 - 314$	
$312 - 49$	
$687 - 563$	
$981 - 607$	
$604 - 239$	
$345 - 268$	
$938 - 412$	
$656 - 437$	
$298 - 131$	
$385 - 215$	
$1085 - 617$	
$2567 - 678$	
$9875 - 567$	
$2050 - 498$	
$114 - 89$	
$262 - 119$	
$562 - 229$	

$1088 + 478$	
$2056 + 789$	
$295 + 498$	
$312 + 714$	
$896 + 747$	
$409 + 6802$	
$608 + 7897$	
$2145 + 421$	
$3987 + 318$	
$803 + 746$	
$1043 + 157$	
$952 + 986$	
$475 + 9042$	
$1037 + 2498$	
$5682 + 492$	
$632 + 1084$	
$783 + 209$	
$6013 + 549$	
$619 + 8014$	
$378 + 504$	
$409 + 656$	

$4506 - 216$	
$9997 - 658$	
$2054 - 417$	
$1081 - 804$	
$670 - 487$	
$248 - 119$	
$902 - 675$	
$9783 - 406$	
$8962 - 434$	
$786 - 387$	
$962 - 908$	
$4894 - 1394$	
$561 - 416$	
$896 - 516$	
$7845 - 2478$	
$2398 - 1304$	
$9987 - 4377$	
$9832 - 984$	
$736 - 698$	
$295 - 117$	
$8978 - 3659$	