Summer Keep Up Maths Booklet

Year 5

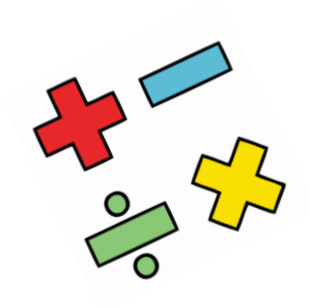
Name:

Instructions

- 6 weeks of quick maths questions – one for each week of your holiday!

- You then have 5 questions to complete a day, with an example at the top to help you in purple pen.

- 5 minutes a day, is all I am asking to help you 'Keep up' over the summer holidays!



Week 1

Calculate the perimeter

22cm

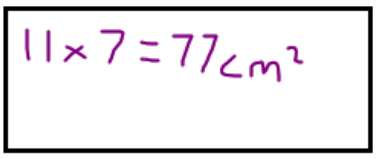
13cm

13cm

22 cm

22 + 13 + 26 + 13 + 22 + 44 = 70 cm

Calculate the area (w x l)



7cm
l (length)

w (width) 11 cm

$\frac{3}{6} \times 8$ ×

$\frac{24}{6}$ or 4

multiply the numerator only.

Th

1000 less than

Th

1200.301

200.301

What value is underlined?

TTh Th H T O

56, 030

3 tens or 30

Calculate the perimeter

11cm

30 cm

Calculate the area

4cm

12 cm

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

1000 less than

5352

What value is underlined?

56, 030

Calculate the perimeter

Calculate the area

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

1000 less than

53,452

What value is underlined?

56, 030

Calculate the perimeter

Calculate the area

$\frac{2}{3} \times 9$

1000 less than

393,394

What value is underlined?

384,932

Calculate the perimeter  	Calculate the area  	
$\frac{1}{3} \times 8$	1000 less than 9,493	What value is underlined? 384,932

Calculate the perimeter  	Calculate the area  	
$\frac{3}{4} \times 8$	1000 less than 91,023	What value is underlined? 384,932

Week 2

Write the decimal as a fraction and percentage:

$0.42 = 42\% = \frac{42}{100}$

3481×100

348100

So move the digits 2 places bigger.

1.Get the denominators the same.

$\frac{3_{\times 2}}{4_{\times 2}} + \frac{1}{8} = \frac{7}{8}$

$\frac{6}{8} + \frac{1}{8}$

2. add the numerators.

Round 29,321

29,320

to the nearest 10.

Look at the number in the one's column. 5 or more round up, 4 or less round down.

Write the factors for this product:

Factors are numbers that when multiplied together make the product.

30

1, 30, 5, 6, 2, 15

Write the decimal as a fraction and percentage:

0.13

238×100

$\frac{2}{4} + \frac{3}{8}$

Round 9,328

to the nearest 10.

Write the factors for this product:

28

Write the decimal as a fraction and percentage: 0.85		954 x 100
$\frac{1}{4} + \frac{1}{8}$	Round 831 to the nearest 10.	Write the factors for this product: 32

Write the decimal as a fraction and percentage: 0.75		29 x 100
$\frac{2}{4} + \frac{1}{8}$	Round 823,281 to the nearest 10.	Write the factors for this product: 42

Write the decimal as a fraction and percentage: 0.25		9279 x 100
$\frac{2}{4} + \frac{2}{8}$	Round 3,289 to the nearest 10.	Write the factors for this product: 80

Write the decimal as a fraction and percentage: 0.99		91.2 x 100
$\frac{3}{4} + \frac{2}{8}$	Round 300,215 to the nearest 10.	Write the factors for this product: 63

Week 3

Write the decimal as a fraction and percentage:

$0.09 = \frac{9}{100} = 9\%$

$9129 \div 100$

91.29 So move the digits 2 places smaller.

1.Get the denominators the same

$\frac{3}{4} - \frac{2}{8} = \frac{4}{8}$

$\frac{6}{8} - \frac{2}{8}$ 2. subtract the numerators.

Round 33,215
33,200
to the nearest 100.

Look at the number in the ten's column. 5 or more round up, 4 or less round down.

$36\ (6 \times 6)$

6^2 squared means multiply by itself

Write the decimal as a fraction and percentage:

0.07

$98319 \div 100$

$\frac{3}{4} - \frac{1}{8}$

Round 381,291

to the nearest 100.

8^2

Write the decimal as a fraction and percentage: 0.01		$3912 \div 100$
$\frac{2}{5} - \frac{3}{10}$	Round 1,911 to the nearest 100.	11^2

Write the decimal as a fraction and percentage: 0.12		$12 \div 100$
$\frac{4}{5} - \frac{1}{10}$	Round 31,985 to the nearest 100.	7^2

Write the decimal as a fraction and percentage: 0.96		$10102 \div 100$
$\frac{4}{5} - \frac{3}{10}$	Round 331,305 to the nearest 100.	4^2

Write the decimal as a fraction and percentage: 0.33		$99.2 \div 100$
$\frac{4}{5} - \frac{4}{10}$	Round 92,519 to the nearest 100.	5^2

Week 4

Which is bigger? Make them the same 0.33 34% 0.34	Is this a prime number? Yes As only 1 x 5 5 A prime number only has factors that are itself and 1.	
312 ÷ 1000 0.312 Move the digits 3 places smaller.	Round 92,519 93,000 to the nearest 1000. Look at the number in the hundred's column. 5 or more round up, 4 or less round down.	8 2^3 ← cubed means multiply by itself and again. (2 x 2 x 2)

Which is bigger? 0.25 24%	Is this a prime number? 7	
911 ÷ 1000	Round 99,219 to the nearest 1000.	3^3

Which is bigger? 0.75 7%	Is this a prime number? 9	
5341 ÷ 1000	Round 5,919 to the nearest 1000.	4^3

Which is bigger? 0.05 50%	Is this a prime number? 11	
9268 ÷ 1000	Round 505,119 to the nearest 1000.	5^3

Which is bigger? 0.07 70%	Is this a prime number? 17	
82312 ÷ 1000	Round 1,925,519 to the nearest 1000.	6^3

Which is bigger? 0.83 81%	Is this a prime number? 21	
98308 ÷ 1000	Round 519 to the nearest 1000.	7^3

Week 5

3 5 × 1 1 3 5 + 3 5 0 3 8 5 1. Multiply O x O then O x T 2. Multiply T x O then T x T. 3. Add the two numbers.	Write 3 common multiples of 4 and 6. 4 8 12 16 20 24 28 32 36 6 12 18 24 30 36 12, 24, 36	
145 ÷ 2 0 7 2 r 1 2 | 1 4 5	Round 1.42 to the nearest 1 dp (tenth), Look at the number in the hundredth's column. 5 or more round up, 4 or less round down. 1.4	Write this time in the 12h and 24h digital clock. 20 minutes past one in the afternoon. 1:20 pm (12 h) 13:20 (24 h)

4 8 × 1 2 + Write 3 common multiples of 2 and 3.		
243 ÷ 4	Round 2.46 to the nearest 1 dp (tenth),	Write this time in the 12h and 24h digital clock. 20 minutes past six in the evening.

9 3 × 1 7 +	Write 3 common multiples of 2 and 6.	
243 ÷ 6	Round 12.49 to the nearest 1 dp (tenth),	Write this time in the 12h and 24h digital clock. Half past eight in the morning.

6 3 × 1 4 +	Write 3 common multiples of 3 and 7.	
274 ÷ 5	Round 8.09 to the nearest 1 dp (tenth),	Write this time in the 12h and 24h digital clock. Quarter to eight in the evening.

7 9 × 2 7 +	Write 3 common multiples of 4 and 5.	
874 ÷ 3	Round 28.281 to the nearest 1 dp (tenth),	Write this time in the 12h and 24h digital clock. Midday

4 4 × 2 6 +	Write 3 common multiples of 6 and 8.	
769 ÷ 7	Round 0.982 to the nearest 1 dp (tenth),	Write this time in the 12h and 24h digital clock. Midnight

Week 6

$$\begin{array}{r} 63 \\ \times\ 26 \\ \hline 378 \\ +\ 1260 \\ \hline 1638 \\ \hline {\scriptstyle 1} \end{array}$$

Calulate these:

$$\begin{array}{r} 99\not{4}^{3}2 \\ -\ 3437 \\ \hline 6505 \end{array} \qquad \begin{array}{r} 9542 \\ +\ 6437 \\ \hline 15979 \end{array}$$

7169 ÷ 4

$$4\overline{)7^{3}1^{3}69} \quad 1792\ r1$$

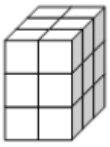
Round 0.982 to the nearest whole number (ones)

1

Look at the number in the tenth's column. 5 or more round up, 4 or less round down.

Estimate the volume of this shape:

b



18 cm^3

Count the top layer and then x by the amount of layers.

6 x 3 = 18

$$\begin{array}{r} 73 \\ \times\ 23 \\ \hline \\ + \\ \hline \\ \hline \end{array}$$

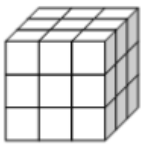
Calulate these:

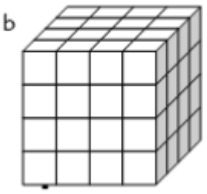
$$\begin{array}{r} 6441 \\ -\ 3436 \\ \hline \\ \hline \end{array} \qquad \begin{array}{r} 4542 \\ +\ 3497 \\ \hline \\ \hline \end{array}$$

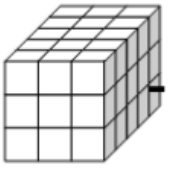
5019 ÷ 4

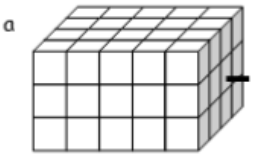
Round 1.92 to the nearest whole number (ones)

Estimate the volume of this shape:



9 3 × 2 4 +	Calulate these: 6 2 4 9 - 3 4 3 7 6 5 4 2 + 4 9 3 2	
9248 ÷ 3	Round 65.2 to the nearest whole number (ones)	Estimate the volume of this shape: 

6 8 × 3 2 +	Calulate these: 5 9 3 8 - 1 7 3 7 8 5 4 2 + 4 9 8 7	
9218 ÷ 8	Round 1.502 to the nearest whole number (ones)	Estimate the volume of this shape: 

4 3 × 4 6 +	Calulate these: 8 9 4 2 - 9 3 9 5 5 4 2 + 9 0 3 0	
827 ÷ 11	Round 193.29 to the nearest whole number (ones)	Estimate the volume of this shape: 

7 3 × 5 1 +	Calulate these: 9 0 0 0 - 3 2 9 9 9 5 4 2 + 9 8 3 1	
7169 ÷ 12	Round 93.89 to the nearest whole number (ones)	Estimate the volume of this shape: