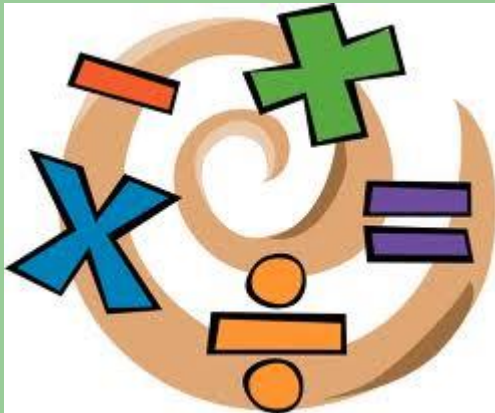


MATHS WORKSHOP



Year 6

October 2018

Aims of the session are

- to have a clear understanding of the age related expectation (ARE) for your child
- to understand the structure of the maths session.
- to provide a guidance of how you can support your children at home.

Core of the Primary Maths Curriculum



Fluency

Ability to recall and apply rapidly and accurately.

Apply knowledge to increasingly complex problems.

Reasoning

Reasoning mathematically through enquiry and seeing relationships between concepts.

Develop argument, justify and prove using mathematical language.

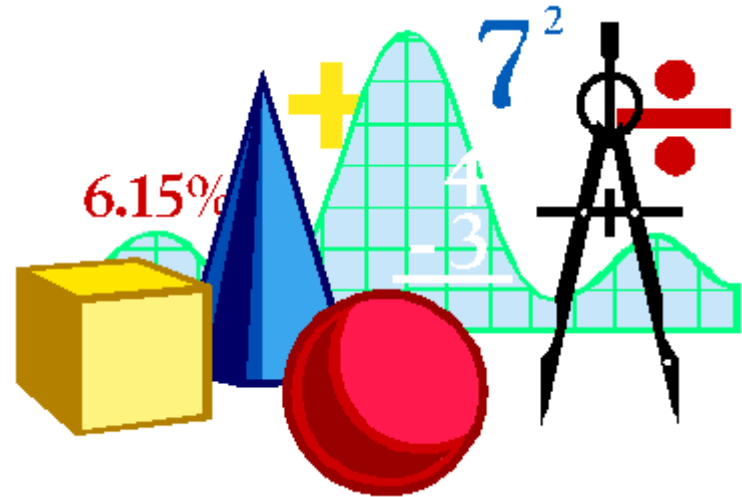
Problem solving

Ability to apply skills to routine and non-routine problems.

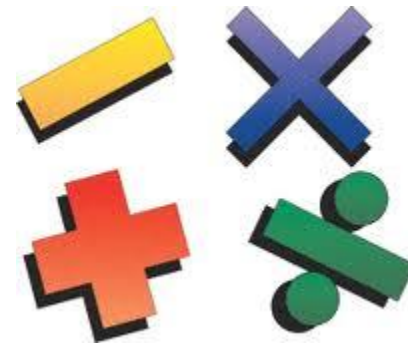
Ability to break down problems into steps in seeking solution.

Agenda

- Arithmetic
- Calculation strategies
- Useful Websites
- Questions



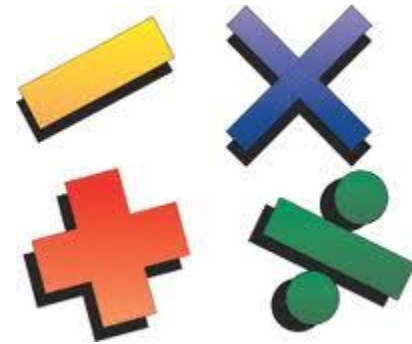
Arithmetic



1. $7.3 + 0.2$
2. 25% of 1264
3. $\frac{2}{7} + \frac{1}{7}$
4. $6 - 4.27$



Arithmetic



1. $7.3 + 0.2 = 7.5$
2. $25\% \text{ of } 1264 = 316$
3. $2/7 + 1/7 = 3/7$
4. $6 - 4.27 = 1.73$



Calculation Strategies

ADDITION

$$6\ 214 + 7\ 449 = 13663$$
$$\begin{array}{r} 7449 \\ + 6214 \\ \hline \end{array}$$

$$23.6 + 4.21 = 27.81$$
$$\begin{array}{r} \\ \\ \hline \hline \end{array}$$

Remember to
line up the
place values
and decimal
point.

$$\begin{array}{r} 23.6 \\ + 4.21 \\ \hline \hline \end{array}$$



SUBTRACTION



$$8076.19 - 5456.42 = 2619.77$$

$$26.2 - 2.62 = 23.58$$

$$\begin{array}{r} 8076.19 \\ - 5456.42 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 26.2 \\ - 2.62 \\ \hline \hline \end{array}$$

MULTIPLICATION



Calculate: 56×8

$$\begin{array}{r} 56 \\ \times 8 \\ \hline 448 \\ \hline \end{array}$$

Children must know their
time tables to 12×12
from memory!



MULTIPLICATION



Calculate: 3123×37

$$\begin{array}{r} 3123 \\ \times 37 \\ \hline 21861 \\ + 93690 \\ \hline 115551 \end{array}$$



MULTIPLICATION



Calculate: 232×1.2

Multiply by 10 to get rid of the decimal point.

$$1.2 \times 10 = 12$$

$$\begin{array}{r} 232 \\ \times 12 \\ \hline \end{array}$$

$$\begin{array}{r} 464 \\ 2320 \\ \hline \end{array}$$

$$2784 \div 10 \text{ Final answer} = 278.4$$



DIVISION

Calculate $364 \div 7$

$$\begin{array}{r} 52 \\ 7 \overline{) 364} \\ \underline{35} \\ 14 \\ \underline{14} \\ 0 \end{array}$$

Step 1: How many 7s go into 36?

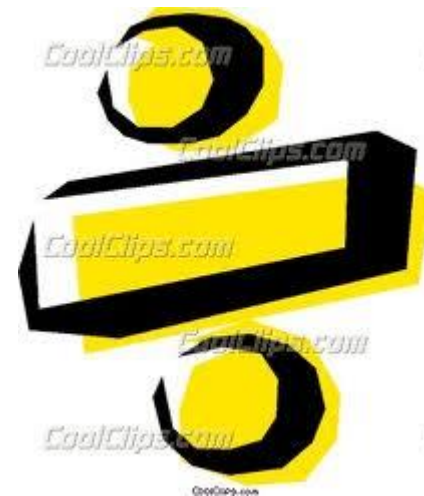
5 r 1.

Step 2: Place 9 on top of the bus stop and the remainder 1 you place in front of the 4.

Step 3: How many 7s go into 14?

2

Step 4: Place the 2.



DIVISION

Calculate $48 \div 5$

$$\begin{array}{r} 9.6 \\ 5 \overline{) 48^3 0} \end{array}$$

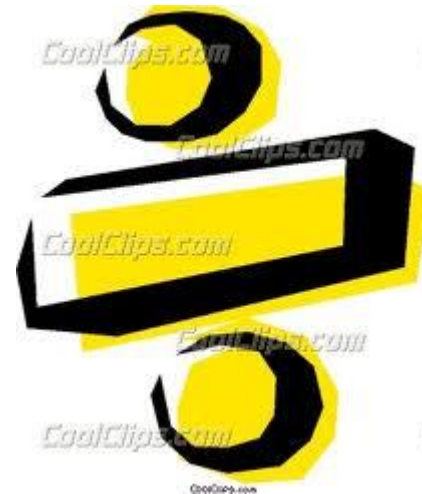
Step 1: How many 5s go into 48?

9 r 3.

Step 2: Place 9 on top of the bus stop and the remainder 3 after 48.

Step 3: Put a zero after the 3 and put a decimal point after 9.

Step 4: How many 5s go into 30. **6**



DIVISION

Calculate $504 \div 21$

$$\begin{array}{r} 24 \\ 21 \overline{) 5084} \end{array}$$

Step 1: How many 21s go into 50?

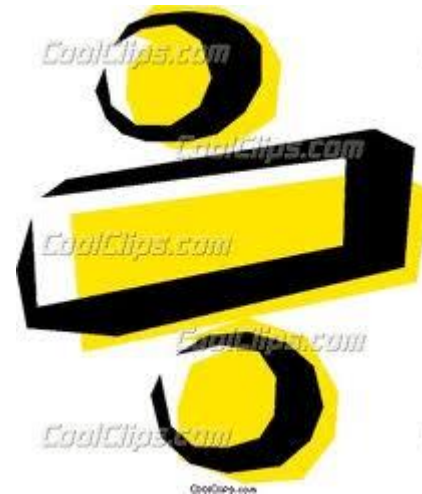
2 r 8.

Step 2: Place 2 on top of the bus stop and the remainder 8 before 4.

Step 3: How many 21s go into 84?

4

Step 4: Place 4 on top of the bus stop.



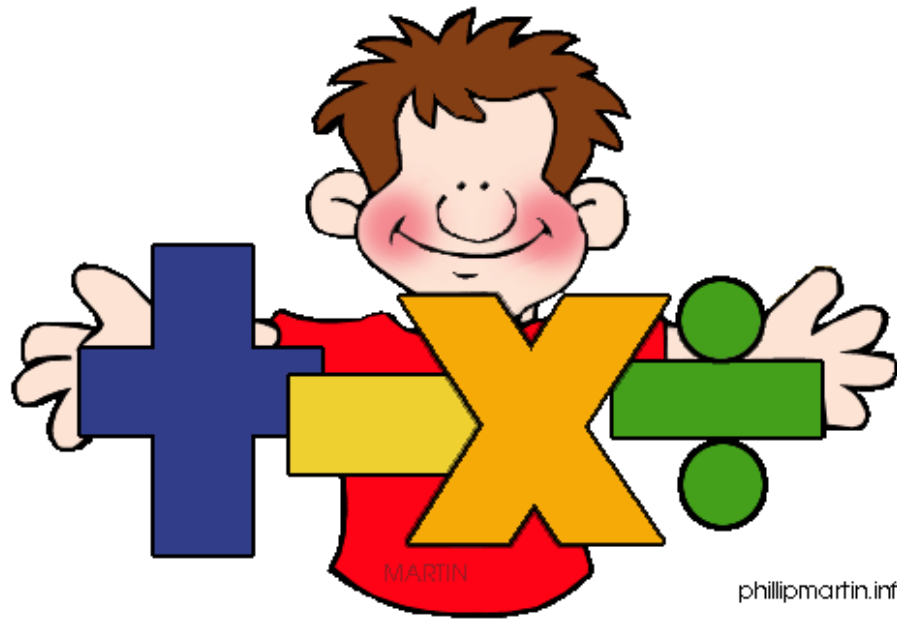
Test time!



Useful websites to support your child at home.

- SATs Papers: <http://www.satspaper.org>
- <https://www.havefunteaching.com>
- www.mathsframe.co.uk
- www.whiz.com
- www.ictgames.com
- www.bbc.co.uk/schools
- www.crickweb.co.uk
- www.ictgames.com/resources.html
- www.nrich.maths.org
- www.lancsngfl.ac.uk
- www.topmarks.co.uk
- www.mathletics.co.uk
- www.themathsfactor.com
- www.mathsformumsanddads.co.uk
- www.mathsisfun.com
- <https://trockstars.com/login/21697>

Questions!



phillipmartin.info

We Value your opinion

- Please complete an evaluation sheet.

Thank you

