# Year 6 – Autumn 1

By the end of this half term, children should know the following facts. The aim is for them to recall these facts with **speed** and **accuracy**:

## Count in powers of 10, forwards and backwards, to 10 million
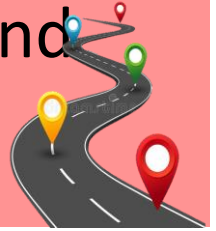
Multiply the number represented by 10, 100 and 1000.

| Tens | Ones | ● | Tenths | Hundreths | Thousandths |
|------|------|---|--------|-----------|-------------|
|  | ●● |  | ●●● |  | ●●● ● |

### Key Vocabulary
integer nearest closest multiple place value column
___ rounded to the nearest ___ is ___

The previous multiple of ___ is ___.
The next multiple of ___ is ___.

### Top tips
The secret to success is practising little and often. Use time wisely. Can you practise this KIRF whilst walking to school or during a car journey? You do not need to practise all aspects of the KIRF all at once; perhaps you could have a fact of the day, or a few facts per week to practise? If you would like more ideas, please speak to your child's teacher.

### Practical ideas and resources
- Write any number up to 10,000,000. On a blank number line, write the two nearest multiples a number to round to the nearest million, 100,000, 10,000, 1,000, 100, 10 or whole number.
- Represent a number on a place value grid. Ask "What is number is rounded to the nearest ___?"

| HTh | TTh | Th | H | T | O |
|-----|-----|----|----|----|----|
| ●●● |  | ●●● | ●●● | ●●● | ●●● |
| ●●● |  | ●●● | ●●● | ●●● | ●●● |
|  |  | ● |  | ●●● | ●● |

## Year 6 – Autumn 2

By the end of this half term, children should know the following facts. The aim is for them to recall these facts with **speed** and **accuracy**:

# Identify common factors of a pair of numbers

Find the common factors of each pair of numbers

24 and 36

20 and 30

28 and 45

### Key Vocabulary

common factors multiples  order

_____ is a factor of all numbers.
The largest factor of a number is always _____
_____ is a common factor because __

### Top tips

The secret to success is practising little and often. Use time wisely. Can you practise this KIRF whilst walking to school or during a car journey? You do not need to practise all aspects of the KIRF all at once; perhaps you could have a fact of the day, or a few facts per week to practise? If you would like more ideas, please speak to your child's teacher.

### Practical ideas and resources

- Ask your teacher for a multiplication grid.
- Use the following numbers when to help identify common factors:
    15 and 30    24 and 40    15 and 50    24 and 72
- Draw a Venn Diagram (two overlapping circles) to sort the factors and common factors.
- Use two plates and sort factors onto the plates:

# Year 6 – Spring 1

By the end of this half term, children should know the following facts. The aim is for them to recall these facts with **speed** and **accuracy**:

## Find fractions of an amount

Work out the fractions of the amounts.

| | | |
|---|---|---|
| $\frac{1}{5}$ of 20 | $\frac{1}{4}$ of 40 | $\frac{1}{5}$ of 30 |
| $\frac{1}{10}$ of £20 | $\frac{1}{8}$ of 40 m | $\frac{1}{10}$ of 90 g |

A football team has 300 tickets to give away.
They give $\frac{3}{4}$ of them to a local school.
How many tickets are left?

300
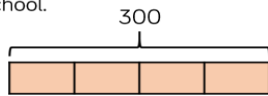
Use the bar model to find the missing numbers.

160
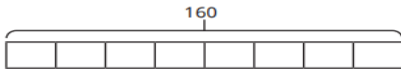
▸ $\frac{1}{8}$ of 160 = _____  ▸ $\frac{5}{8}$ of 160 = _____  ▸ _____ of 160 = 60

### Key Vocabulary

numerator  denominator  equivalent  fraction  whole  parts  divide  amount  number of parts

The whole is divided into equal parts. Each part is worth

The numerator is _, so the fraction is worth_

If one fifth is equal to , then _ fifths are equal to

## Top tips

The secret to success is practising little and often. Use time wisely. Can you practise this KIRF whilst walking to school or during a car journey? You do not need to practise all aspects of the KIRF all at once; perhaps you could have a fact of the day, or a few facts per week to practise? If you would like more ideas, please speak to your child's teacher.

## Practical ideas and resources

Topmarks
Fractions of Amounts

BINGO
- fractions of amounts
multiples of the denominator

MathsFrame
Fractions of Amounts

Can you find ½, ¼, ¾, 1/3. 2/3, 5/6, 3/8. 3/8 of 48? Can you find fractions of different amounts?