# Year 4 Calculation Expectations
## 2x 3x 4x 5x 6x 7x 8x 9x 10x 11x 12x
## Calculation check

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## ADDITION
- Add up to 4 digits using the column method
- Estimate and use inverse operations
- Solve problems

| Th | H | T | O | |
|----|---|---|---|---|
| 4 | 2 | 7 | 5 | + |
| 1 | 8 | 3 | 6 | |
| 6 | 1 | 1 | 1 | |
| 1 | 1 | 1 | | |

| 6111 | |
|------|------|
| 4275 | 1835 |

| T | O | . | t | h | |
|---|---|---|---|---|---|
| 6 | 9 | . | 1 | 4 | + |
| 1 | 8 | . | 3 | 6 | |
| 8 | 7 | . | 5 | 0 | |
| 1 | | | 1 | | |

| 87.50 | |
|-------|-------|
| 69.14 | 18.36 |

## SUBTRACTION
- Subtract up to 4 digits using the column method
- Estimate and use inverse operations
- Solve problems

| Th | H | T | O | |
|----|---|---|---|---|
| 5 6 | 10 1 | 10 1 | 11 | - |
| 1 | 8 | 3 | 6 | |
| 4 | 2 | 7 | 5 | |

| 6111 | |
|------|------|
| ? | 1835 |

| T | O | . | t | h | |
|---|---|---|---|---|---|
| 7 8 | 17 | . | 4 5 | 10 | - |
| 1 | 8 | . | 3 | 6 | |
| 6 | 9 | . | 1 | 4 | |

| 87.50 | |
|-------|-------|
| ? | 18.36 |

## RESOURCES



## MULTIPLICATION
- Recognise and use factor pairs and commutativity in mental calculations.
- Multiply two-digit and three-digit numbers by a onedigit number using formal written layout.
- Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.

| H | T | O | |
|---|---|---|---|
| 2 | 1 | 7 | x |
| | | 7 | |
| 1 5 | 1 | 9 | |
| | 1 | 4 | |

| H | T | O | |
|---|---|---|---|
| | 9 | 3 | x |
| | | 4 | |
| 3 | 7 | 2 | |
| 3 | 1 | | |

39x7=30x7+9x7
(2x3)x4=2x(3x4)
2x6x5=10x6

## DIVISION
- Recall division facts for multiplication tables up to 12 × 12
- Use place value, known and derived facts to divide mentally, including:dividing by 1

## LANGUAGE

| | | |
|---|---|---|
| Thousands | Compare | Discrete |
| Hundreds | Round | Continuous |
| Tens | Roman | Translations |
| Ones | numerals | |
| Decimal | Estimation | |
| Tenths | Column/ar | |
| Hundredths | Operations | |
| Exchange | Scaling | |
| Place holder | Commutative | |
| Multiplier | Distributive | |
| Integer | Equivalent | |
| Digit | Convert | |
| Multiples | Money | |
| More/less | Analogue | |
| Negative | Digital | |