

# Year 7

## Maths

### Autumn 2

### Level Ladder

Topic: Decimals

All students are expected to master at least the Level 4 content by the end of the half term.

Check Arbor or ask your child what their current working and target level is in Maths

EG:

4A - mastered all of the Level 4 content

4B - mastered some of the Level 4 content

4C - mastered all of the Level 3 content and beginning to master some Level 4 content

3	<ul style="list-style-type: none"><li>★ Place these numbers in order, starting with the largest: 6.7, 7.6, 6.3, 3.7, 7.7</li><li>★ Place these long jump results in order, starting with the shortest: 2.07 m, 1.89 m, 2.65 m, 2.30 m</li><li>★ What is the value of <math>37 \times 10</math>?</li></ul>
4	<ul style="list-style-type: none"><li>★ § Place these numbers in order of size, starting with the greatest: 0.206, 0.026, 0.602, 0.620, 0.062</li><li>★ <math>\text{Ⓜ} \div 10 = 800</math>. What does the 'Ⓜ' represent?</li><li>★ <math>700 \div \text{Ⓜ} = 7</math>. What is the missing number?</li><li>★ <math>374.37 + 46.8</math></li><li>★ <math>382.7 - 61.3</math></li></ul>

5

- ★  $3.2 \times 30$
- ★  $2.7 \times 10$
- ★ 8 apples cost £1.12. How much will 5 apples cost?
- ★  $6.7 \times 1000$
- ★ Calculate  $11 \times 2.4$
- ★  $\hat{1} \times 0.2 = 200$ . What does the ' $\hat{1}$ ' represent?
- ★ Round 1.618 to two decimal places
- ★ Round 12.399 to two decimal places
- ★ What number do you multiply by 0.6 to get 60?
- ★  $45 - 13.4 + 2.5$

6

- ★  $2.3 \times 0.1$
- ★  $4.64 \times 50$
- ★ Fill in the blanks in the calculation shown:  $12 \times 6.5 = 6 \times \underline{\quad} = \underline{\quad}$
- ★  $151.8 \div 0.06$
- ★  $0.093 \div 0.31$
- ★ Evaluate  $0.9 \div 0.1$

7

- ★ The circumference of the Earth is 40,075.012 km. Round this to two significant figures.
- ★ Is it true that multiplication always makes things bigger? Explain your answer.
- ★ Hair grows at 0.000,000,000,170,877 mph. Round this to two significant figures
- ★  $4 \times 10^v = 4000$ . What is the value of v?

8

- ★ The temperature at the centre of the Sun is 15,400,000°C. Write this number in standard form.
- ★ Write these in ascending order:  $4 \times 10^5$ ,  $3.5 \times 10^6$ ,  $8.9 \times 10^2$ ,  $5.078 \times 10^4$
- ★ Toenails grow at 0.000,000,000,007,323 mph. Write this number in standard form

- |  |   |
|--|---|
|  | <ul style="list-style-type: none"><li>★ Write these in descending order: <math>4 \times 10^{-5}</math>, <math>3.5 \times 10^{-6}</math>, <math>8.9 \times 10^{-2}</math>, <math>5.078 \times 10^{-4}</math></li><li>★ Evaluate <math>(3.7 \times 10^{11})(9.06 \times 10^{-4})</math> on a calculator. Give your answer as an ordinary number</li><li>★ Write <math>7^{-2}</math> as a fraction</li></ul> |
|--|---|
-