

Year 6: Numeracy Day 1

Each day, complete your times table starter. Then watch the video lesson, clicking through each round tab then complete the related worksheet.

Times Tables Starter

Spend 15 minutes on Times Tables Rock Stars - see if you can beat your top score!



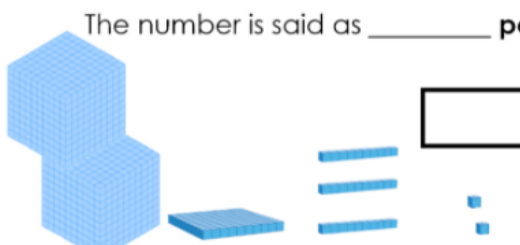
Representing decimal numbers in a variety of ways

Today we will be looking at the different ways we can show decimal numbers.

<https://classroom.thenational.academy/lessons/represent-decimal-numbers-in-a-variety-of-ways-cmv6ae>

Question 1

The number is said as _____ point _____.



= _____ + _____ + 0.03 + _____

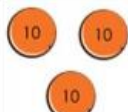

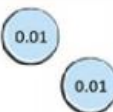
Ones	tenths	hundredths	thousandths

$2 + \frac{\boxed{}}{10} + \frac{\boxed{}}{100} + \frac{2}{1000} = \boxed{}$

Question 2

The number is said as _____ point _____.

$$\boxed{} = \underline{} + \underline{} + 0.02$$

Tens	Ones	tenths	hundredths
			

$$\boxed{} + \boxed{} + \boxed{\frac{}{100}} = \boxed{}$$

Question 3

- $1.35 = 1 + \underline{} + 0.05$
- What is the relationship between 0.004 and 0.4?
- 2.532 is equivalent to what?
- 0.45 can also be represented in which way?

Year 6: Numeracy Day 2

Each day, complete your times table starter. Then watch the video lesson, clicking through each round tab then complete the related worksheet.

Times Tables Starter

1. Write down your starting time e.g. 10:03:00

2) 3×0	3) 2×0	4) 2×5	5) 3×6
6) 8×2	7) 7×11	8) 6×11	9) 2×11
10) 2×6	11) 7×6	12) 2×4	13) 5×9
14) 11×9	15) 5×7	16) 7×4	17) 9×2
18) 6×5	19) 9×10	20) 10×6	21) 5×4
22) 3×7	23) 10×4	24) 4×5	25) 3×5

2. Write down your finishing time

3. Subtract your answer for question 1 from your answer for question 26.

Place Value to 3 Decimal Places

In this lesson we will explore a variety of ways of representing numbers up to three decimal places.

<https://classroom.thenational.academy/lessons/place-value-to-3-decimal-places-6crpat>

Question 1

Pick two animals and use place value counters or drawings of Dienes to represent their weights.

Compare them and explain which mass is greater:

"I know that ____ has a greater mass than ____ because..."



Spider monkey: 8.856 kg



River otter: 8.09 kg



Ocelot: 9.92 kg



Sloth: 8.43 kg



Jaguarundi: 8.819 kg

Question 2

What is the relationship between **one hundredth** and **one thousandth**?

If **one** bead on a bead string represents **one thousandth**, how many beads would you need to represent **one**?



When you are comparing the decimal numbers **1.234** and **1.256**, which place value column is the most important to decide which is the largest?

If I am representing the decimal number **3.609** using place value counters, which place value column will be empty?

DECIMAL PLACE VALUE CHART

THOUSANDS TO THOUSANDTHS

Thousands	Hundreds	Tens	Ones	Tenths	Hundredths	Thousandths

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Question 3

Four children are thinking of four different numbers.

3.454

4.445

4.345

3.54

Teddy: "My number has four hundredths."

Alex: "My number has the same amount of ones, tenths and hundredths."

Dora: "My number has less ones than tenths and hundredths."

Jack: "My number has 2 decimal places."

Match each number to the correct child.

Year 6: Numeracy Day 3

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Times Tables Starter



On a piece of paper, can you write out the answers to your 9 times-tables **backwards** (starting with the answer to $12 \times 9 =$). Time yourself to do this as quickly as possible.

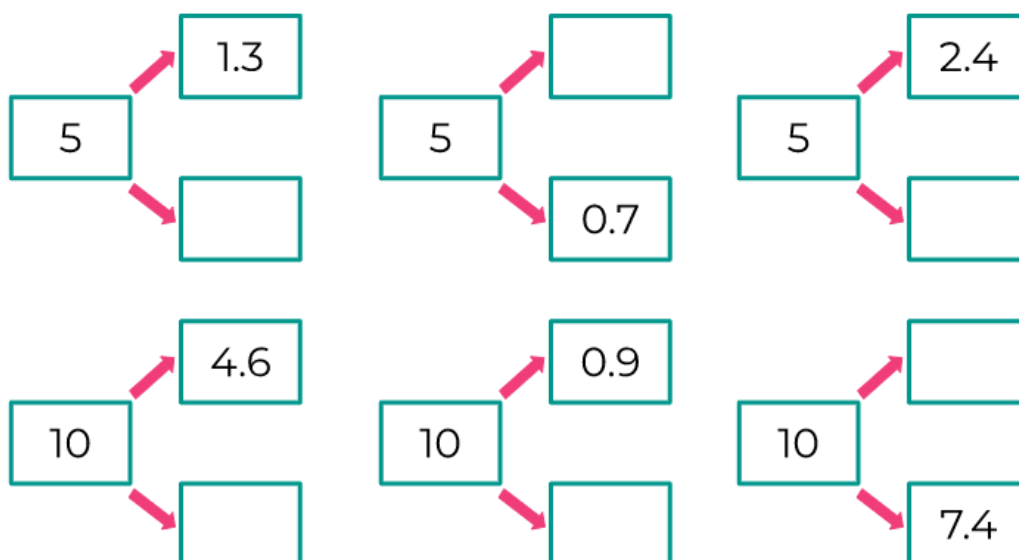
Decimal Number Bonds

In this lesson, you will use your knowledge of whole-number number bonds to solve decimal-number number bonds.

<https://classroom.thenational.academy/lessons/decimal-number-bonds-c8vk4t>

Question 1

Complete the number bonds



Question 2

- 1) Suggest your own parts that would make 5 or 10.
- 2) What if 5 or 10 was made of 3 parts? What could the parts be?

Question 3

How many paths can you find through the maze, adding each number at a time, to make a total of one?

Start →	0.02	0.01	0.05	0.08	0.3	0.04	0	0.001
	0.2	0.06	0.07	0.09	0.001	0.004	0.02	0.04
	0.005	0.04	0.2	0.02	0.05	0.06	0.07	0.6
	0.5	0.005	0.05	0.02	0.03	0.017	0.006	0.06
	0.009	0.8	0.001	0.05	0.015	0.01	0.008	0.007
	0.09	0.2	0.08	0.03	0.199	0.01	0.04	0.05
	0.01	0.008	0.1	0.09	0.005	0.08	0.02	0.02
	0.05	0.03	0.01	0.22	0.07	0.003	0.04	0.09 → 1

Year 6: Numeracy Day 4

Each day, complete your times table starter. Then watch the video lesson, clicking through each round tab then complete the related worksheet.

Times Tables Starter

8th multiple of 6

7th multiple of 8

12th multiple of 5

10th multiple of 15

9th multiple of 11

6th multiple of 13

9th multiple of 14

15th multiple of 14

12th multiple of 6

2nd multiple of 5

On a piece of paper, write down the answers to these calculations. Time yourself to do this as quickly as possible.



Multiply a decimal number by a whole number

In this lesson, we will explore a number of strategies for multiplying a decimal number by a whole number.

<https://classroom.thenational.academy/lessons/multiply-a-decimal-number-by-a-whole-number-6mwpcd>

Question 1

$$\begin{array}{r} 1) \quad 14.2 \\ \times \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 32.5 \\ \times \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 21.3 \\ \times \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 4) \quad 12.1 \\ \times \quad 9 \\ \hline \end{array}$$

Question 2

Rosie is saving her pocket money. Her mum says,

“Whatever you save, I will give you five times the amount.”

If Rosie saves £2.23, how much will her mum give her?

If Rosie saves £7.76, how much will her mum give her? How much will she have altogether?

Question 3

Chocolate eggs can be bought in packs of 1, 6 or 8

What is the cheapest way for Dexter to buy 25 chocolate eggs?



1 chocolate egg
52p



6 chocolate eggs
£2.85



8 chocolate eggs
£4

Year 6: Numeracy Day 5


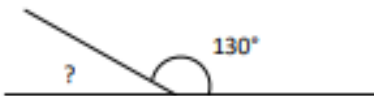
12 x Times Tables Starter

What are the factors of:

36 80 120 75

Mental Maths Test

Today, you will be using various strategies to answer mixed questions.

1)	$7 + (8 \times 6)$	
2)	$\frac{3}{5} - \frac{3}{10}$	
3)	Write 0.7 as a fraction	
4)	$\frac{1}{3}$ of 21 = ____ - 10	
5)	Round 4.639 to 1dp	
6)	What is the range of: 21, 35, 17, 27, 32, 12 and 30	
7)	Find $\frac{2}{5}$ of 36	
8)	Which of these numbers is prime ? 33 45 57 69 53 49	
9)	What is the difference between 6000 and 60?	
10)	(1 foot = 12 inches) Which two measurements add up to 3 feet? 14 inches 2 feet 1 inch 1 foot 7 inches 11 inches	
11)	How many months in $\frac{3}{4}$ of a year?	
12)	Fill in the missing operations (+, -, x or \div) to make this correct: $5 \square 6 \square 3 \square 2 = 8$	
13)	A rectangular swimming pool measures 6 metres by 4 metres. What is the area ?	
14)	What 3d shape does this net make? 	
15)	What is the missing angle? 	
16)	Two numbers have a sum of 15 and a product of 26. What are they?	
17)	I eat a third of a box of chocolates. There are now 16 left. How much were in the box at the start?	
18)	If $2x + 1 = 7$ what is the value of x ?	