

Foundation Y10 Mathematics Homework



HALF-TERM 1

Week 1

Molly, Paige and Demi share 42 sweets in the ratio 3:2:1

Work out the number of sweets that each of them receives.

N6.2 Sharing in a Ratio

Jerry and Mick share some money in the ratio 2 : 3 Mick gets £900

Work out how much money Jerry gets.

Genie Q

A1.9 Simplifying Harder Expressions

Simplify $p^3 \times p^5$

Simplify $2m^2 \times 5n^6$

Simplify $\frac{16m^7n^3}{4m^3n}$

A1.9 Simplifying Harder Expressions

Expand the following expressions:

$$3(x + 4)$$

$$x(x^2 + 2)$$

$$(y+5)(y+7)$$

Hegarty - Week 2

Skills Check – 692 & 693 Converting Length

New Knowledge – 131 Estimate Complex Calculations

Week 3

SP4.3 Combined Events

Two tetrahedral (4-sided) dice are rolled and their scores are <u>added</u> together. Complete the space to show all the possible outcomes.

Dice 1

Dice 2

	1	2	3	4
1				
2				
3				
4				

What is the probability of getting 6 or above?

N4.4 +/- Fractions

DO NOT USE A CALCULATOR

Work out $\frac{4}{9} + \frac{3}{5}$

Work out $\frac{1}{5} + \frac{2}{7}$

N4.4 +/- Fractions

DO NOT USE A CALCULATOR

Work out $2\frac{1}{5} + 1\frac{1}{7}$

Hegarty - Week 4

Skills Check - 102 Index Form (1)

New Knowledge – 864 & 865 Scale Diagrams

Week 5

N4.6 Dividing Fractions

DO NOT USE A CALCULATOR

Work out
$$\frac{7}{8} \div \frac{3}{4}$$

Work out
$$\frac{1}{7} \div \frac{3}{4}$$

N4.6 Dividing Fractions

DO NOT USE A CALCULATOR

Work out
$$1\frac{1}{6} \div \frac{2}{3}$$

N2.6 Standard Form

DO NOT USE A CALCULATOR

- 1 (a) Write 1.2×10^5 as an ordinary number.
 - (b) Write 0.003 in standard form.
- 2 (a) Write 42 900 000 in standard form.
 - (b) Write 3.61×10^{-3} as an ordinary number.

N2.6 Standard Form

DO NOT USE A CALCULATOR

Write these numbers in order of size. Start with the smallest number.

$$3.5 \times 10^2$$
 0.035×10^5

$$350 \times 10^{-2}$$
 35×10^{0}

Hegarty - Week 6

Skills Check - 780-783 Substitution

New Knowledge - 105 & 106 & 107 Index Form

Week 7

NON-CALCULATOR YOU MUST SHOW YOUR WORKING

- 1 Calculate 50% of £480
- 2 Round 2658 to the nearest 10
- 3 Round 6.37 correct to 1 decimal place
- 4 Work out 10 + 6 × 2
- 5 List the first 8 square numbers.
- 6 Work out 38 × 40
- 7 Simplify the ratio 24:18
- 8 What will be the time 45 minutes after 2:20?
- 9 Work out 12.34 × 100
- 10 Simplify 3x + 2y x + 3y

Mathsbox, Foundation A, HT4 Wk1

Half-Term Holiday

Consolidation -	