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**Maths**

**KS4**

**Units Covered:**

**KS4M001 – Basic Skills**

Recap Basic Skills P1

Square & Prime Numbers P2

Long Maths P3

Maths in Daily Life P4

**KS4M002 – Non-Whole Numbers**

Fractions P1

Decimals P2

Ratios P3

**KS4M003 – Area & Perimeter**

Calculating Area P1

Calculating Perimeter P2

**KS4M004 – Graphs & Tables**

Graphs P1

Tables P2

Patterns in Numbers P3

**KS4M005 – Taxation & Budgeting**

Taxation P1

Budgeting P2

Graphical user interface, text

Description automatically generated**Maths**

**KS4M001**

**Learner Name:**

**Date Started:**

**Date Completed:**

**Tutor Name:**

**Tutor Feedback:**

**……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………**

Complete the equations below with the correct symbols: (+ - x ÷)

2 7 = 9 48 15 = 33 23 33 = 56

12 3 = 36 18 2 = 9 7 3 = 21

Complete the equations below with the missing numbers:

11 x = 44 8 + = 34 6 x = 30

45 - = 22 40 ÷ = 20 80 - = 35

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Bobby, Andy, Ian and Mark decide to go to the Cinema.

Bobby has £30, Andy has £25, Ian has £10 and Mark has £15. How much do they have?.............................................................

Cinema tickets cost £11 each. How much do the group have left? ……………………

A Large Drink and Popcorn costs £7.50. Do they have enough for four orders?..........

How much is left over? ……………………………..

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Ian lives 5 miles from the Cinema.

Bobby lives 3.5 miles from the Cinema.

Mark lives 2.5 miles from the Cinema.

Andy lives 4 miles from the Cinema.

Assuming all four boys walk at 4mph, how long do each take to get to the Cinema?

Ian –

Bobby –

Mark –

Andy –

Square numbers areis what is made by multiplying a number by its self.

For example 2 x 2 = ….. meaning ….. is a square number.

Name some more square numbers and use maths to prove why:

….. is a square number because ….. x ….. = …..

….. is a square number because ….. x ….. = …..

….. is a square number because ….. x ….. = …..

….. is a square number because ….. x ….. = …..

….. is a square number because ….. x ….. = …..

….. is a square number because ….. x ….. = …..

….. is a square number because ….. x ….. = …..

Prime numbers are whole numbers whose only factors are itself and 1.

A factor is a whole number that can be divided evenly into other numbers.

2 is the only even Prime number.

2 ÷ 1 = 2 and 2 ÷ 2 = 1

3 is the next Prime number.

3 ÷ 1 = 3 and 3 ÷ 3 = 1

Give some more Prime numbers and explain why using maths:

….. is a prime number because ….. ÷ ….. = and ….. ÷ ….. =

….. is a prime number because ….. ÷ ….. = and ….. ÷ ….. =

….. is a prime number because ….. ÷ ….. = and ….. ÷ ….. =

….. is a prime number because ….. ÷ ….. = and ….. ÷ ….. =

….. is a prime number because ….. ÷ ….. = and ….. ÷ ….. =

….. is a prime number because ….. ÷ ….. = and ….. ÷ ….. =

Your tutor will explain the process below:

350 200

x 50 x 25

Now try yourself:

400 270 660 340

x 60 x 30 x 25 x 40

275 333 888 787

x 30 x 15 x 22 x 50

Your tutor will explain the process below:

20 / 500 25 / 350

Now try yourself:

40 / 400 20 / 700 15 / 900 35 / 700

60 / 900 25 / 800 25 / 600 70 / 350

Can you explain some scenarios where you may use maths in daily life?

……………………………………………………………………………………………………………………………………………………………………………………………………

Using money in shops, or working out financial sums is a common example of using maths in daily life.

Have a go at the sums below:

Harry got £65 in his Birthday Cards.

He wants to buy a tracksuit that costs £85.

He washes cars in his street and charges £5 per car, how many cars does Harry need to wash in order to buy the tracksuit?

Show your working out:

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The shop charge £5 delivery and 50p per meter for fitting.

Allie also wants underlay which costs £2.50 per square meter.

Using the diagram below, calculate the total cost of the carpet.

2m

Show your working out:

Hallway

6m