Graphical user interface, text

Description automatically generated

**Maths**

**KS3**

**Units Covered:**

**KS3M001 – Basic Skills**

Recap Basic Skills P1

Select Appropriate Sums P2

Basic Shapes P3

Even & Odd Numbers P4

Checking Work P5

**KS3M002 – Units of Mass**

Time P1

Money P2

Length / Distance P3

Weight P4

**KS3M003 – Intermediate Shapes**

Shape Descriptors P1

3d Shapes P2

**KS3M004 – Averages**

Mean P1

Median P2

Mode P3

Graphical user interface, text

Description automatically generated**Maths**

**KS3M001**

**Learner Name:**

**Date Started:**

**Date Completed:**

**Tutor Name:**

**Tutor Feedback:**

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

What do the following symbols mean:

+

………………………………………………………………………………………………….

-

…………………………………………………………………………………………………..

x

………………………………………………………………………………………………….

÷

………………………………………………………………………………………………….

Complete the following sums:

3 + 6 = ….. 4 + 7 = ….. 8 + 8 = …..

7 – 5 = ….. 9 – 4 = ….. 3 – 3 = …..

2 x 4 = ….. 3 x 5 = ….. 4 x 7 = …..

8 ÷ 4 = ….. 9 ÷ 3 = ….. 12 ÷ 3 = …..

Now a little harder…

18 + 8 = ….. 21 + 8 = ….. 17 + 7 = …..

29 – 17 = ….. 34 – 16 = ….. 18 – 12 = …..

3 x 7 = ….. 11 x 8 = ….. 15 x 4 = …..

28 ÷ 4 = ….. 35 ÷ 5 = ….. 39 ÷ 3 = …..

Now add the missing numbers to complete the sums:

3 + ….. = 14 5 + ….. = 22 12 + …. = 36

40 - ….. = 26 36 - ….. = 11 28 - ….. = 12

4 x ….. = 16 3 x ….. = 33 8 x ….. = 24

30 ÷ ….. = 10 45 ÷ ….. = 15 50 ÷ ….. = 5

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

2 7 = 9 48 12 = 36 23 33 = 56

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

11 4 = 44 32 4 = 8 16 2 = 8

45 23 = 22 40 2 = 20 80 45 = 35

If you were trying to figure out how much money you had from your Birthday, your pocket money and your Saturday job you would …………………………………….. .

If you were trying to spread your pocket money out over the full week you would ……………………… it by …………………….. .

If you wanted to work out how much pocket money you would save before Christmas you would ………………………… it by how many ……………….. there are left.

If you wanted to figure out how much money you would have left after buying a new game you would ………………………… the cost of the game from ……………………………… .

Imagine you are playing Football at the park.

It takes 25 minutes to walk home and you have 2 hours until your curfew time.

How long can you carry on playing until you need to set off?

Show your working out:

Name these shapes:

…………………………… …………………………….. …..………………………

……………………………… ………………………… ………………………..

How many sides does a square have?

………………………………………………………………………………………………….

How many angles (corners) does a square have?

………………………………………………………….……………………………………….

How many angles does a triangle have?

……………………………………………….………………………………………………….

What do all of the angles of a triangle add up to?

…………………………………………………………………………………………………..

How many corners does a circle have?

……………………………………………..……………………………………………………

How many straight lines does a semi-circle have?

………………………………………………………….……………………………………….

What is the difference between a square and a rectangle? …………………………………………………………………………………………………..

Odd numbers cannot be divided into pairs.

1, 3, 5, …… , …… , …… , ….. , ….. , …… , …… , …… , …… , ….. , ….. , …..

101, ……. , ……… , ……… , ………. , ……….. , ………. , ……….. , ……... , ……….

337, ……… , ……….. , ………. , ……….. , ……….. , ………… , ………. , ……….

751, ………. , ……….. , ……….. , ……….. , ………… , ………… , ……….. , ………..

1111, ……….. , ………… , …………. , ………… , ………… , …………. , …………

5555, ………… , ………….. , …………… , …………. , …………. , ………… , ………

7777, …………. , …………… , ………….. , …………… , …………. , …………..

Even numbers can be divided by 2 and leave a remainder of 0.

2, 4, 6, …… , ……. , ……. , …….. , ……. , …….. , ……. , …… , ……… , …….. ,…….

28, …….. , ……… , …….. , ……… , ……... , ……… , ……… , ………. , ……… , ……

80, ……… , ………. , ………. , ……….. , ………. , ………. , ……….. , ………. ,………

100, …… , …….. , ……… , ………. , ……….. , ……….. , ………. , ……….. , ……….

2000, ………….. , ………….. , …………… , ………….. , ………….. , ……………

4444, ……………. , …………….. , ……………. , …………… , ……………. , …………

6040, …………… , …………… , ……………. , …………….. , ……………. , ………….

Use maths to explain why the following numbers are odd or even:

40 is ………………… because ……………………………………………………………...

27 is ………………… because ……………………………………………………………...

112 is ………………. because ….……...…………………………………………………...

39 is ………………… because ……………………………………………………………...

70 is ………………… because ……………………………………………………………...

66 is ………………… because ……………………………………………………………...

35 is ………………… because ……………………………………………………………...

It is possible to check our work by doing sums backwards.

For instance:

12 + 10 = 22 and we can check this is correct by doing 22 – 10 = 12

Complete the following sums and check your working out:

13 + 40 = ……….. ……………………………………………………………………….

25 + 30 = ……….. ………………………………………………………………………

34 + 22 = ……….. ………………………………………………………………………

60 – 35 = ……….. ………………………………………………………………………

70 – 14 = ……….. ………………………………………………………………………

28 – 13 = ……….. ………………………………………………………………………

We can check multiplication and division sums by reversing the sum like this:

10 ÷ 2 = 5 and we can check this by doing 5 x 2 = 10

And the other way around:

4 x 2 = 8 and we can check this by doing 8 ÷ 2 = 4

Complete the following sums and check your working out:

10 x 6 = ……….. ………………………………………………………………………..

20 x 3 = ……….. ………………………………………………………………………

5 x 4 = …………. ……………………………………………………………………….

60 ÷ 15 = ……….. ………………………………………………………………………

70 ÷ 10 = ……….. ………………………………………………………………………

50 ÷ 5 = ………… ………………………………………………………………………