YEAR 7 PREPARATION: TERM 1

mathsquad

-guided homework-

Welcome to the Mathsquad Guided Homework Program!

This program is designed to increase your confidence in maths and set you up for a successful start in high school maths.

The program focuses on the 21 most important primary school maths skills. Each week you will spend time practicing and improving your knowledge of these essential skills.

It is expected that you will not be able to do all questions just yet.
Skipping questions that you do not know how to do is perfectly fine.

There will be some questions you already know how to do. By doing a homework sheet each week, over time you will become quicker at answering these questions and find the steps easier to remember and use.

You will "hand in" your homework sheet each week by taking a photo and texting it to me at 0402 988 132. I will mark your sheet so you can see how many skills you already know (and we'll celebrate this!). I will also give you tips on how to improve. You will have the opportunity to watch videos and complete questions to help you learn new skills.

Using your times tables accurately and efficiently is a large focus of this program. For students who don't yet know their times tables, a multiplication grid has been included on the back page of this booklet. Use this as needed to ensure all times tables are calculated accurately.

The steps below will be carried out each week:

- Complete the weekly homework sheet with your best effort (skipping questions you don't yet know is perfectly fine)
- Take photos of your homework sheets, and any additional pages of work you've completed, and text them through to 0402 988 132

Time to get started on Sheet 1. Turn the page and complete the questions on pages 2 and 3.

Note to parents: If you would like to help your child with their homework please provide support **after** your child has completed the task with their best effort. Please make it clear which question(s) have been completed with guidance by using a different coloured pen. This is done to ensure that the corrections and future set tasks are based on what your child can do independently. Thank you.

mathsquad	Year 7 Preparation Sheet 1	Name: Due date:

Step 1: ★ Start a timer ★ Complete the 90 times tables questions ★ Stop the timer ★ Record your time

1. $2 \times 4 =$	19. $2 \times 10 =$	37. $9 \times 2 =$	55. $1 \times 0 =$	73. $5 \times 6 =$
2. $1 \times 11 =$	20. $10 \times 8 =$	38. $11 \times 12 =$	56. $8 \times 4 =$	74. $8 \times 9 =$
3. $5 \times 9 =$	21. $12 \times 8 =$	39. $8 \times 8 =$	57. $11 \times 6 =$	75. $5 \times 1 =$
4. $11 \times 0 =$	22. $12 \times 1 =$	40. $5 \times 8 =$	58. $11 \times 11 =$	76. $0 \times 12 =$
5. $12 \times 5 =$	23. $3 \times 9 =$	41. $7 \times 10 =$	59. $3 \times 2 =$	77. $6 \times 2 =$
6. $3 \times 11 =$	24. $2 \times 0 =$	42. $6 \times 10 =$	60. $8 \times 7 =$	78. $12 \times 3 =$
7. $2 \times 5 =$	25. $2 \times 12 =$	43. $3 \times 8 =$	61. $4 \times 7 =$	79. $0 \times 7 =$
8. $7 \times 7 =$	26. $0 \times 4 =$	44. $0 \times 5 =$	62. $11 \times 2 =$	80. $12 \times 12 =$
9. $10 \times 12 =$	27. $12 \times 7 =$	45. $9 \times 6 =$	63. $11 \times 9 =$	81. $4 \times 11 =$
10. $12 \times 9 =$	28. $1 \times 2 =$	46. $6 \times 4 =$	64. $6 \times 1 =$	82. $8 \times 0 =$
11. $9 \times 1 =$	29. $5 \times 3 =$	47. $7 \times 5 =$	65. $10 \times 3 =$	83. $12 \times 4 =$
12. $11 \times 7 =$	30. $5 \times 4 =$	48. $4 \times 3 =$	66. $3 \times 7 =$	84. $0 \times 3 =$
13. $8 \times 1 =$	31. $10 \times 10 =$	49. $0 \times 6 =$	67. $1 \times 4 =$	85. $10 \times 5 =$
14. $11 \times 5 =$	32. $6 \times 6 =$	50. $2 \times 7 =$	68. $1 \times 10 =$	86. $12 \times 6 =$
15. $7 \times 9 =$	33. $7 \times 6 =$	51. $5 \times 5 =$	69. $10 \times 4 =$	87. $1 \times 1 =$
16. $1 \times 3 =$	34. $3 \times 6 =$	52. $9 \times 9 =$	70. $1 \times 7 =$	88. $2 \times 2 =$
17. $10 \times 11 =$	35. $6 \times 8 =$	53. $2 \times 8 =$	71. $0 \times 10 =$	89. $8 \times 11 =$
18. $4 \times 4 =$	36. $3 \times 3 =$	54. $9 \times 0 =$	72. $9 \times 4 =$	90. $10 \times 9 =$

Time:

Step 2: ★ Complete the 21 skills questions with your best effort ★ Include working out when you see the ✎ symbol +

1. Fill in the boxes to make each equation true
   a. $5 + \square = 5$
   b. $\square + 3 = 10$
   c. $\square + 1 = 6$

2. a. $3 + 7 =$
   b. $4 + 8 =$
   c. $6 + 78 =$
   d. $5 + 57 =$

3. What number is shown below? Use digits then words

4. ✎ $432 + 2085$

5. a. $4 - 0 =$
   b. $17 - 8 =$
   c. $67 - 58 =$
   d. $64 - 41 =$

6. ✎ $946 - 372$

7. a. $0 \times 9 =$
   b. $5 \times 2 =$
   c. $12 \times 9 =$
   d. $7 \times 8 =$

8. ✎ 9×395

9. a. $4 \div 1 =$

b. $132 \div 12 =$

c. $25 \div 5 =$

d. $52 \div 9 =$ rem.

10. ✎ $6144 \div 3$

11. Fill in the boxes to make each equation true

a. $2 \times \square = 92$

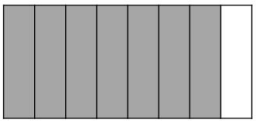
b. $3 \times \square = 78$

c. $5 \times \square = 145$

12. a. List the factors of 54

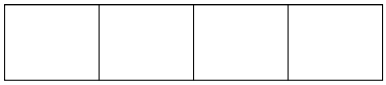
b. List the first 7 positive multiples of 8

13. What fraction is represented in the diagram below?



14. ✎ Calculate $\frac{2}{4} + \frac{1}{4}$. Illustrate your calculation using the rectangle below.

$\frac{2}{4} + \frac{1}{4} =$



15. ✎ Calculate the following. Illustrate your calculations using the rectangle below.

a. $\frac{1}{4}$ of 36 = b. $\frac{3}{4}$ of 36 =

16. Fill in the box to create an equivalent fraction

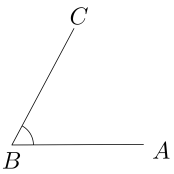
$$\frac{8}{9} = \frac{\square}{18}$$

17. Write the following as a simplified fraction

$$\frac{12}{30} =$$

18. ✎ Calculate $\frac{15}{35} + \frac{3}{7}$. Please give your answer in simplified form.

19. a. Circle the word that classifies $\angle ABC$ below:

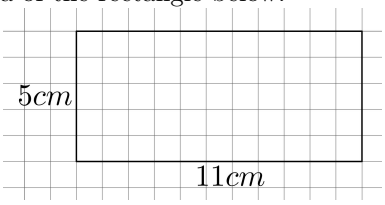


straight right acute obtuse

b. Estimate the size of angle ABC.

$\angle ABC \approx$

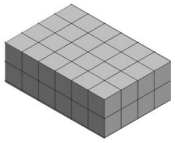
20. ✎ Determine the perimeter and area of the rectangle below.



$P =$

$A =$

21. ✎ Calculate the volume of the shape below.



$V =$

Step 3: ★ Visit the webpage mathsquad.org/7PHP (Password Required) and complete your weekly additional task

more space from page 22 onwards if needed

Step 4: ★ Photograph your work from this week and send the photos through to Wendy at 0402 988 132