

YEAR 7 FOUNDATION: BOOK 1A


mathsquad

-practice-
homework

name: _____

form: _____

Welcome to the ‘Mathsquad Practice’ Homework Program. These sheets are designed to give you multiple opportunities to learn and revise key mathematical skills. Completing these sheets will help you become equipped with the skills you need to be a successful user of mathematics in school and every day life. The following points will help you get the most out of the program. Enjoy!

- The first page of each sheet is technology free and you are not allowed to use a calculator.
- The second page of each sheet is technology active and you are allowed to use a calculator.
- When you see the  symbol include some working to support your answer. This could involve a calculation, annotating a diagram or an explanation of your thought process.
- You may be able to complete very few questions or almost all of them, it doesn't matter. As long as you give your best effort and try to improve each time you are maximising your success!
- If you feel that some or all of these questions aren't suitable for you, have a chat with your teacher.
- Once you can do the 28 Foundation skills and the 12 Core skills within this booklet you will be ready to level up to the Core Homework Book!

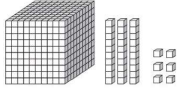
Attempt these questions on the 2 times tables if your teacher has ticked this box. If not ticked, feel free to give them a go.

Q	Question	Ans
1	$2 \times \square = 6$	
2	$\square \times 2 = 0$	
3	$20 \div \square = 2$	
4	$18 \div 2 = \square$	
5	$\square \div 2 = 8$	
6	$14 \div 2 = \square$	
7	$2 \times 1 = \square$	
8	$10 \div \square = 2$	
9	$12 \div \square = 2$	
10	$22 \div 2 = \square$	
11	$22 \div 2 = \square$	
12	$2 \times 6 = \square$	
13	$\square \times 2 = 18$	
14	$6 \div \square = 2$	
15	$\square \times 2 = 8$	
16	$4 \div 2 = \square$	
17	$\square \div 2 = 6$	
18	$8 \div \square = 2$	
19	$4 \div \square = 2$	
20	$2 \times \square = 22$	

Q	Question	Ans
21	$2 \times \square = 20$	
22	$12 \times 2 = \square$	
23	$2 \div \square = 2$	
24	$0 \times 2 = \square$	
25	$11 \times 2 = \square$	
26	$2 \times \square = 16$	
27	$8 \div \square = 2$	
28	$\square \div 2 = 11$	
29	$\square \div 2 = 2$	
30	$18 \div \square = 2$	
31	$2 \times \square = 6$	
32	$\square \div 2 = 1$	
33	$10 \div \square = 2$	
34	$\square \times 2 = 6$	
35	$14 \div \square = 2$	
36	$\square \div 2 = 7$	
37	$8 \div \square = 2$	
38	$\square \times 2 = 18$	
39	$2 \times 1 = \square$	
40	$16 \div \square = 2$	

Q	Question	Ans
41	$\square \times 2 = 22$	
42	$2 \times \square = 10$	
43	$4 \div \square = 2$	
44	$2 \times \square = 20$	
45	$22 \div \square = 2$	
46	$2 \times 9 = \square$	
47	$24 \div 2 = \square$	
48	$\square \div 2 = 6$	
49	$\square \times 2 = 22$	
50	$12 \div \square = 2$	
51	$2 \times \square = 12$	
52	$2 \times \square = 14$	
53	$24 \div \square = 2$	
54	$11 \times 2 = \square$	
55	$\square \times 2 = 14$	
56	$\square \div 2 = 5$	
57	$2 \times 6 = \square$	
58	$\square \times 2 = 6$	
59	$2 \times 2 = \square$	
60	$2 \times 9 = \square$	

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



2. a. Calculate 5000×100

b. Round 63 to the nearest ten.

3. a. $4 + 4 =$

b. $3 + 9 =$

c. $38 + 4 =$

d. $36 + 43 =$

4. $1224 + 2037$

5. a. $7 - 6 =$

b. $17 - 8 =$

c. $23 - 16 =$

d. $43 - 29 =$

6. $784 - 295$

7. a. half of 20 =

b. $10 \times 11 =$

c. $4 \times 8 =$

d. $12 \times 11 =$

8. 48×15

9. a. $40 \div 8 =$

b. $96 \div 8 =$

c. $\frac{6}{3} =$

d. $29 \div 10 =$ rem.

10. $9531 \div 9$

11. Evaluate $\frac{6}{5-2}$

12. a. $5^2 =$

b. $\sqrt{49} =$

13. Evaluate

$$6 + -4 =$$

14. a. What is the place value of the 8 in 7.418?

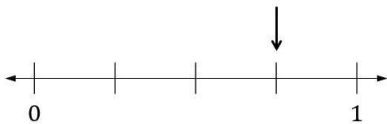
b. Round 4.5619 to 2 decimal places (2 dp.)

15. Write 36 as a product of prime numbers

16. a. List the factors of 53

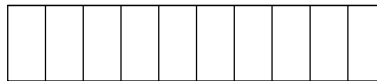
b. List the first 4 positive multiples of 6

17. What fraction is represented in the diagram below?



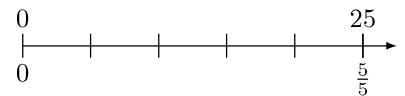
18. Calculate $\frac{7}{10} + \frac{2}{10}$. Illustrate your calculation using the rectangle below.

$$\frac{7}{10} + \frac{2}{10} =$$



19. Compute $\frac{4}{5}$ of 25. Illustrate your calculation using the dual number line.

$$\frac{4}{5} \text{ of } 25 =$$



20. Fill in the box to create an equivalent fraction

$$\frac{5}{9} = \frac{\boxed{}}{27}$$







21. Write the following as a simplified fraction




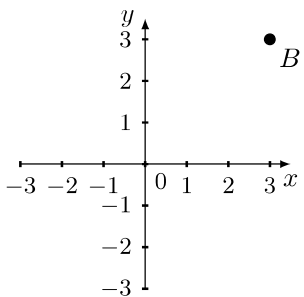
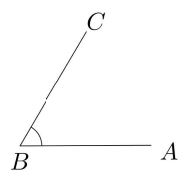

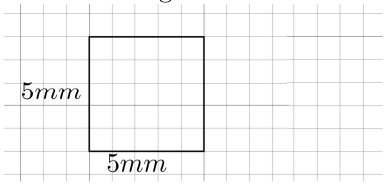

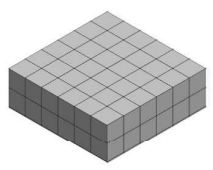
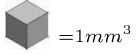




$$\frac{60}{96} =$$

22. Write the fraction below as an improper fraction

$$6\frac{3}{4} =$$

Attempt these **technology free** questions if your teacher has ticked this box. If not ticked, feel free to give them a go.

<p>C1. a. $6 + -4 =$</p> <p>b. $4 - 6 =$</p>	<p>C2. Circle any words that describe the number 5.</p> <p>odd square mult. of 2</p>	<p>C3. Determine the highest common factor of 16 and 20.</p>	<p>C4. Determine the lowest common multiple of 7 and 5.</p>						
<p>C5.  Calculate $(7 - 4)^2$</p>	<p>C6. Insert $<$, $=$ or $>$ between the decimals and, if possible, circle the biggest decimal.</p> <p>1.25 1.250</p>	<p>C7. a. $4.48 \times 10 =$</p> <p>b. $58.58 \div 10 =$</p>	<p>C8.  Complete the table below</p> <table border="1" data-bbox="1203 1619 1549 1696"> <tbody> <tr> <td>P</td> <td>F</td> <td>D</td> </tr> <tr> <td></td> <td>$\frac{23}{25}$</td> <td></td> </tr> </tbody> </table>	P	F	D		$\frac{23}{25}$	
P	F	D							
	$\frac{23}{25}$								
<p>C9.  Calculate $\frac{3}{4} + \frac{5}{16}$</p>	<p>C10.  Calculate $\frac{1}{3} \times \frac{4}{6}$</p>	<p>C11.  Calculate $\frac{4}{16} \div \frac{10}{8}$</p>	<p>C12.  Calculate $3\frac{3}{4} \div 2$</p>						

<p>23. a.  Substitute $x = 9$ into $x + 5$ and evaluate.</p> <p>b.  Substitute $x = 40$ into $\frac{x}{8}$ and evaluate.</p>	<p>24.  Solve the equations below and include working that shows your use of an opposite operation.</p> <p>a.</p> $x - 8 = 7$ <p>b.</p> $\frac{x}{6} = 4$	<p>25. Plot the point $A = (-2, 3)$ below and state the coordinates of point B.</p>  <p>$B = (\quad , \quad)$</p>
<p>26. a. Circle the word that classifies $\angle ABC$ below:</p>  <p>straight right acute obtuse</p> <p>b. $\angle ABC \approx$</p>	<p>27.  Determine the perimeter and area of the rectangle below.</p>  <p>$P =$</p> <p>$A =$</p>	<p>28.  Calculate the volume of the shape below.</p>   <p>$V =$</p>
<p>29.  Kylie walked 4152 steps and Callum walked 2162 in a day. How many more steps did Kylie walk than Callum?</p>	<p>30. On Monday it was -7°C and on Tuesday it was -2°C. Which day was colder and by how much?</p>	<p>31.  7 apples cost \$2.45. How much would 5 apples cost?</p>
<p>Review of Work Level of effort: <input type="checkbox"/> High <input type="checkbox"/> Med <input type="checkbox"/> Low Working out shown? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Quote Stop being afraid of what you could get wrong and think of what you could get right.</p> <p> </p>	<p>Improvement What progress did you make in maths this week?</p>	<p>Optional Teacher Comment</p>