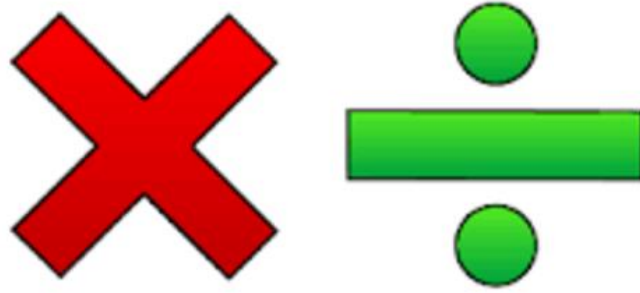


Multiplication & Division



MULTIPLICATION

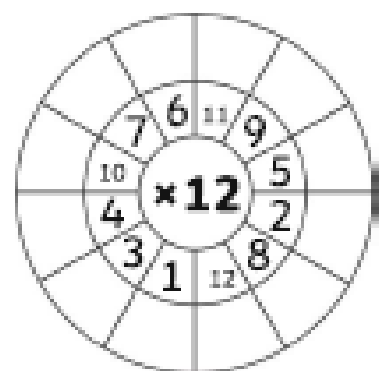
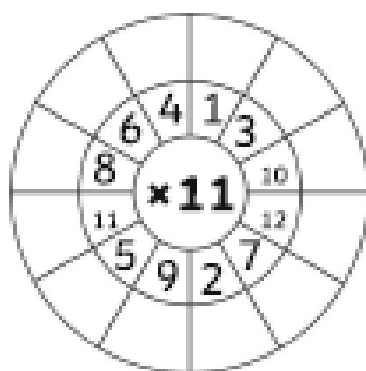
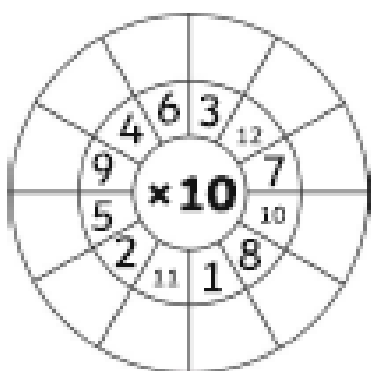
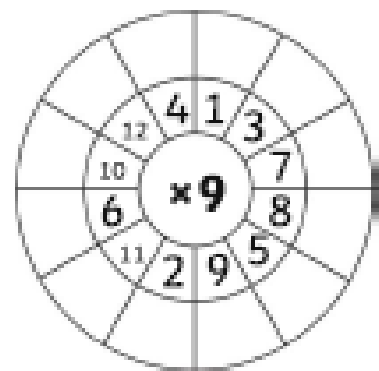
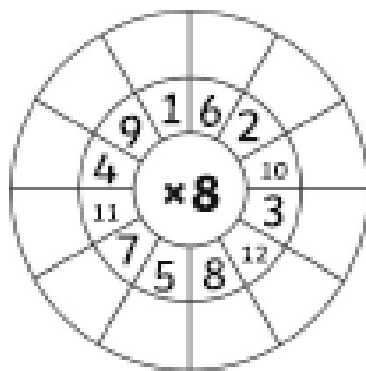
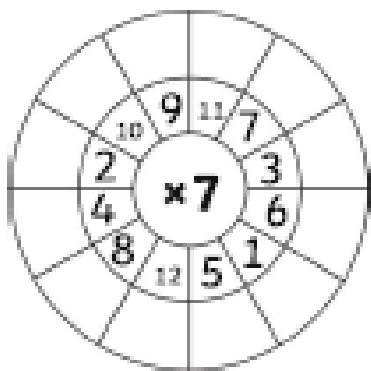
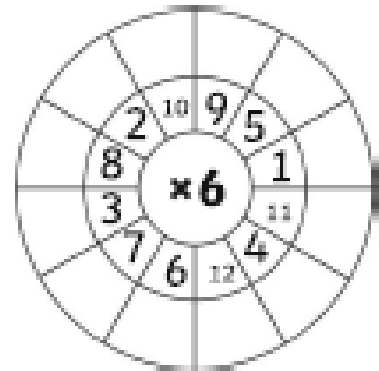
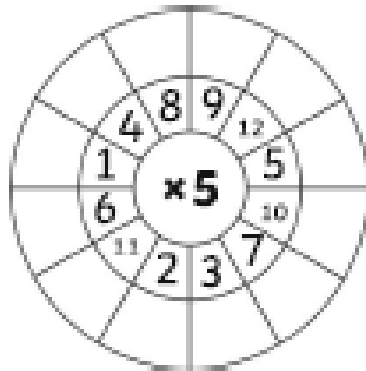
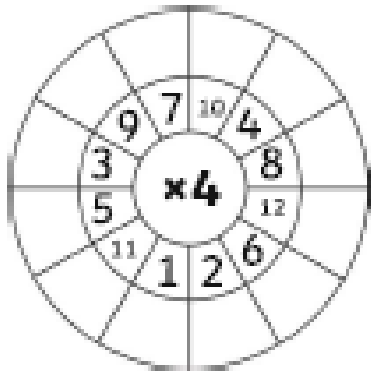
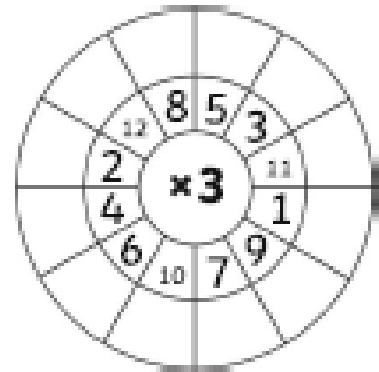
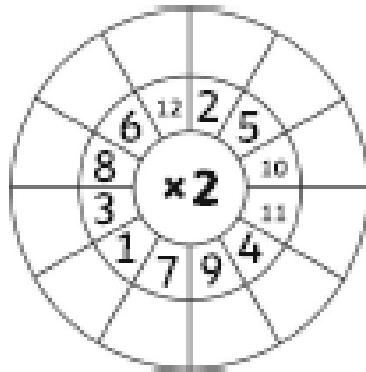
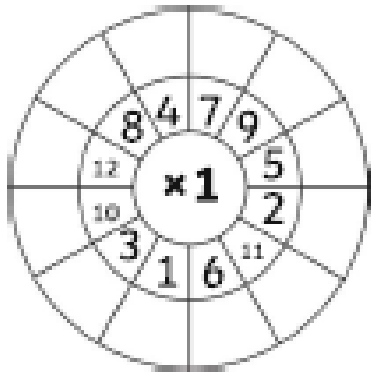
DIVISION

This week we will be focusing our attention on multiplication and division. All of your maths activities will be based around this topic. You will have the opportunity to practice skills you have already learnt with your teacher over the year and then use those skills to solve problems and explain your answers.

We hope you enjoy them!

Multiplication Wheels

Multiply the numbers by the middle number.



Multiplying Three Numbers

1. $2 \times 1 \times 2 =$		2. $3 \times 2 \times 3 =$	
3. $3 \times 0 \times 3 =$		4. $4 \times 3 \times 2 =$	
5. $4 \times 3 \times 4 =$		6. $5 \times 4 \times 5 =$	
7. $2 \times 8 \times 2 =$		8. $2 \times 7 \times 4 =$	
9. $5 \times 2 \times 4 =$		10. $1 \times 3 \times 9 =$	
11. $2 \times 4 \times 8 =$		12. $2 \times 3 \times 9 =$	
13. $9 \times 2 \times 5 =$		14. $2 \times 2 \times 9 =$	
15. $4 \times 4 \times 4 =$		16. $3 \times 3 \times 3 =$	
17. $6 \times 2 \times 6 =$		18. $7 \times 1 \times 2 =$	
19. $4 \times 2 \times 8 =$		20. $10 \times 2 \times 3 =$	

Multiplying by 1 and 0 and Dividing by 1

A. Calculate:

1. $12 \times 1 =$

10. $1 \times 31 =$

2. $1 \times 82 =$

11. $0 \times 0 =$

3. $0 \times 1 =$

12. $0 \div 1 =$

4. $25 \times 1 =$

13. $50 \times 1 =$

5. $342 \times 1 =$

14. $1 \times 50 =$

6. $212 \div 1 =$

15. $1 \times 3983 =$

7. $4567 \times 0 =$

16. $26 \div 1 =$

8. $1 \times 1 =$

17. $1 \div 1 =$

9. $0 \times 11 =$

18. $156 \times 0 =$

B. Write the calculation represented by these word problems then solve the word problem.

1. Dave buys 72 eggs and puts them all in one basket.
How many eggs are in the basket?

Calculation = Answer =

2. Bobbie finds a shop selling games consoles for £79. She buys one game console. How much does she spend?

Calculation = Answer =

3. Samit's dad earns £65 per shift, but last week he could not work as he was ill. How much did he earn altogether last week?

Calculation = Answer =

C. Work your way across each grid applying each operation to the answer from the previous calculation.

Beginning Number	+1	x1	x0	+1	Ending Number
32					

Beginning Number	+1	x1	x1	x0	Ending Number
1					

Beginning Number	x1	+1	x1	+1	Ending Number
10 000					

Multiplying Mentally Using Known Facts

Start this activity by recording the answers
to these multiplication questions.

$6 \times 2 =$

$6 \times 5 =$

$4 \times 6 =$

$4 \times 11 =$

$3 \times 8 =$

$3 \times 8 =$

$8 \times 4 =$

$7 \times 9 =$

$12 \times 10 =$

$3 \times 4 =$

$8 \times 7 =$



$6 \times 20 =$	$40 \times 11 =$	$6 \times 50 =$	$40 \times 6 =$	$3 \times 80 =$
$80 \times 4 =$	$7 \times 90 =$	$120 \times 10 =$	$3 \times 40 =$	$80 \times 7 =$
$600 \times 2 =$	$4 \times 1100 =$	$600 \times 5 =$	$4 \times 600 =$	$300 \times 8 =$
$8 \times 400 =$	$700 \times 9 =$	$12 \times 1000 =$	$300 \times 4 =$	$8 \times 700 =$
$60 \times 20 =$	$40 \times 110 =$	$60 \times 50 =$	$40 \times 60 =$	$30 \times 80 =$
$80 \times 40 =$	$70 \times 90 =$	$120 \times 100 =$	$30 \times 40 =$	$80 \times 70 =$

Dividing Mentally Using Known Facts

Start this activity by recording the answers
to these division questions.

$24 \div 6 =$

$36 \div 9 =$

$21 \div 3 =$

$42 \div 6 =$

$18 \div 6 =$

$48 \div 8 =$

$49 \div 7 =$

$54 \div 6 =$

$28 \div 4 =$

$36 \div 6 =$

$210 \div 3 =$



The Commutative Law of Multiplication

Write the order in which you think it is best to multiply these numbers and then work out the calculation.

Tip: you may not need to change every calculation.

Example: $4 \times 17 = 17 \times 4 = 68$

$17 \times 4 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

$3 \times 24 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

$5 \times 17 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

$29 \times 6 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

$4 \times 18 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

$7 \times 11 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

$19 \times 3 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

$7 \times 30 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

$8 \times 21 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

$3 \times 18 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

$28 \times 9 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

$2 \times 15 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

$12 \times 4 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

$29 \times 5 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

$7 \times 27 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

$4 \times 29 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

$28 \times 8 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

$7 \times 17 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

$15 \times 8 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

$5 \times 27 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

$3 \times 24 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

$17 \times 3 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

$4 \times 14 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

$6 \times 24 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

$21 \times 5 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

$8 \times 26 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

$9 \times 24 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

$7 \times 29 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

$27 \times 6 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

$5 \times 17 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

Using Commutativity in Mental Calculations

Look at the following questions. Decide if you can use the principle of commutativity (doing the multiplication in any order) to make the calculations easier to answer. If you can't make them any easier, just change the order anyway!

<p>e.g. $2 \times 9 \times 5 =$</p>	<p>Five multiplied by two equals ten – doing that first makes any subsequent calculation easy!</p> <p>$5 \times 2 \times 9 = 10 \times 9 = 90$</p>
<p>e.g $9 \times 2 \times 8 =$</p>	<p>9×8 is from a multiplication table you may already know. You can finish the calculation by just doubling the answer.</p> <p>$9 \times 8 \times 2 = 72 \times 2 = 144$</p>

<p>1. $12 \times 2 \times 5 =$</p>	
<p>2. $2 \times 13 \times 2 =$</p>	
<p>3. $5 \times 10 \times 4 =$</p>	

4. $5 \times 5 \times 2 =$

5. $5 \times 4 \times 5 =$

6. $12 \times 5 \times 10 =$

7. $14 \times 5 \times 2 =$

8. $7 \times 13 \times 0 =$

9. $2 \times 2 \times 11 \times 2 =$

10. $10 \times 136 \times 10 =$

11. $1 \times 2 \times 3 \times 4 \times 5 =$

Multiplying Two-Digit Numbers by One-Digit Numbers

1.
$$\begin{array}{r} 24 \\ \times 4 \\ \hline \\ \hline \end{array}$$

2.
$$\begin{array}{r} 22 \\ \times 5 \\ \hline \\ \hline \end{array}$$

3.
$$\begin{array}{r} 18 \\ \times 5 \\ \hline \\ \hline \end{array}$$

4.
$$\begin{array}{r} 26 \\ \times 3 \\ \hline \\ \hline \end{array}$$

5.
$$\begin{array}{r} 12 \\ \times 5 \\ \hline \\ \hline \end{array}$$

6.
$$\begin{array}{r} 48 \\ \times 2 \\ \hline \\ \hline \end{array}$$

7.
$$\begin{array}{r} 41 \\ \times 9 \\ \hline \\ \hline \end{array}$$

8.
$$\begin{array}{r} 31 \\ \times 7 \\ \hline \\ \hline \end{array}$$

9.
$$\begin{array}{r} 44 \\ \times 7 \\ \hline \\ \hline \end{array}$$

10.
$$\begin{array}{r} 32 \\ \times 7 \\ \hline \\ \hline \end{array}$$

11.
$$\begin{array}{r} 62 \\ \times 3 \\ \hline \\ \hline \end{array}$$

12.
$$\begin{array}{r} 66 \\ \times 4 \\ \hline \\ \hline \end{array}$$

13.
$$\begin{array}{r} 82 \\ \times 4 \\ \hline \\ \hline \end{array}$$

14.
$$\begin{array}{r} 87 \\ \times 8 \\ \hline \\ \hline \end{array}$$

15.
$$\begin{array}{r} 94 \\ \times 8 \\ \hline \\ \hline \end{array}$$

16.
$$\begin{array}{r} 53 \\ \times 8 \\ \hline \\ \hline \end{array}$$

17.
$$\begin{array}{r} 85 \\ \times 4 \\ \hline \\ \hline \end{array}$$

18.
$$\begin{array}{r} 75 \\ \times 3 \\ \hline \\ \hline \end{array}$$

19.
$$\begin{array}{r} 68 \\ \times 6 \\ \hline \\ \hline \end{array}$$

20.
$$\begin{array}{r} 78 \\ \times 7 \\ \hline \\ \hline \end{array}$$

Three Digit × One Digit Multiplication

Answer these calculations using either the compact method or the long multiplication method:

1. 167×3	2. 137×3
3. 261×4	4. 319×3
5. 629×5	6. 417×6
7. 130×9	8. 617×9
9. 243×4	

Missing Numbers 2-Digit × 1-Digit Multiplication

Calculate the missing digits in these calculations.

1.

$$\begin{array}{r} \square 8 \\ \times \quad \square \\ \hline 272 \end{array}$$

2.

$$\begin{array}{r} 8 \square \\ \times \quad 4 \\ \hline 324 \end{array}$$

3.

$$\begin{array}{r} \square 4 \\ \times \quad \square \\ \hline 84 \end{array}$$

4.

$$\begin{array}{r} \square 1 \\ \times \quad \square \\ \hline 205 \end{array}$$

5.

$$\begin{array}{r} 3 \square \\ \times \quad 3 \\ \hline 90 \end{array}$$

6.

$$\begin{array}{r} \square 7 \\ \times \quad \square \\ \hline 485 \end{array}$$

7.

$$\begin{array}{r} 2 \square \\ \times \quad 2 \\ \hline 44 \end{array}$$

8.

$$\begin{array}{r} 2 \square \\ \times \quad 4 \\ \hline 108 \end{array}$$

9.

$$\begin{array}{r} \square 0 \\ \times \quad \square \\ \hline 200 \end{array}$$

10.

$$\begin{array}{r} \square 1 \\ \times \quad \square \\ \hline 33 \end{array}$$

11.

$$\begin{array}{r} 6 \square \\ \times \quad 4 \\ \hline 244 \end{array}$$

12.

$$\begin{array}{r} 3 \square \\ \times \quad 2 \\ \hline 72 \end{array}$$

$$\begin{array}{r} 13. \quad 2 \square \\ \times \quad 5 \\ \hline 1 \ 1 \ 0 \\ \hline \end{array}$$

$$\begin{array}{r} 14. \quad 9 \square \\ \times \quad 3 \\ \hline 2 \ 7 \ 3 \\ \hline \end{array}$$

$$\begin{array}{r} 15. \quad 8 \square \\ \times \quad 3 \\ \hline 2 \ 6 \ 7 \\ \hline \end{array}$$

$$\begin{array}{r} 16. \quad \square 0 \\ \times \quad \square \\ \hline 4 \ 0 \\ \hline \end{array}$$

$$\begin{array}{r} 17. \quad \square 4 \\ \times \quad \square \\ \hline 3 \ 3 \ 6 \\ \hline \end{array}$$

$$\begin{array}{r} 18. \quad 5 \square \\ \times \quad 2 \\ \hline 1 \ 1 \ 0 \\ \hline \end{array}$$

$$\begin{array}{r} 19. \quad 9 \square \\ \times \quad 5 \\ \hline 4 \ 6 \ 0 \\ \hline \end{array}$$

$$\begin{array}{r} 20. \quad \square 3 \\ \times \quad \square \\ \hline 3 \ 7 \ 2 \\ \hline \end{array}$$

$$\begin{array}{r} 21. \quad 1 \square \\ \times \quad 3 \\ \hline 3 \ 6 \\ \hline \end{array}$$

$$\begin{array}{r} 22. \quad \square 8 \\ \times \quad \square \\ \hline 2 \ 9 \ 4 \\ \hline \end{array}$$

$$\begin{array}{r} 23. \quad 2 \square \\ \times \quad 4 \\ \hline 9 \ 6 \\ \hline \end{array}$$

$$\begin{array}{r} 24. \quad 1 \square \\ \times \quad 3 \\ \hline 3 \ 3 \\ \hline \end{array}$$

Multiplying 3-Digit by 1-Digit Numbers

Calculate the missing number in these calculations.

$$\begin{array}{r} 1. \quad 2_4 \\ \times \quad _ \\ \hline 856 \end{array}$$

$$\begin{array}{r} 7. \quad _1_ \\ \times \quad 2 \\ \hline 432 \end{array}$$

$$\begin{array}{r} 13. \quad _7_ \\ \times \quad 5 \\ \hline 3380 \end{array}$$

$$\begin{array}{r} 2. \quad _0_ \\ \times \quad 4 \\ \hline 1204 \end{array}$$

$$\begin{array}{r} 8. \quad _0_ \\ \times \quad 4 \\ \hline 836 \end{array}$$

$$\begin{array}{r} 14. \quad _7_ \\ \times \quad 3 \\ \hline 834 \end{array}$$

$$\begin{array}{r} 3. \quad 8_5 \\ \times \quad _ \\ \hline 4950 \end{array}$$

$$\begin{array}{r} 9. \quad 9_6 \\ \times \quad _ \\ \hline 3864 \end{array}$$

$$\begin{array}{r} 15. \quad _5_ \\ \times \quad 3 \\ \hline 477 \end{array}$$

$$\begin{array}{r} 4. \quad 6_6 \\ \times \quad _ \\ \hline 3280 \end{array}$$

$$\begin{array}{r} 10. \quad 3_5 \\ \times \quad 3 \\ \hline 1035 \end{array}$$

$$\begin{array}{r} 16. \quad 8_6 \\ \times \quad _ \\ \hline 3384 \end{array}$$

$$\begin{array}{r} 5. \quad _4_ \\ \times \quad 3 \\ \hline 1620 \end{array}$$

$$\begin{array}{r} 11. \quad _4_ \\ \times \quad 4 \\ \hline 584 \end{array}$$

$$\begin{array}{r} 17. \quad 5_6 \\ \times \quad _ \\ \hline 2144 \end{array}$$

$$\begin{array}{r} 6. \quad 9_8 \\ \times \quad _ \\ \hline 4890 \end{array}$$

$$\begin{array}{r} 12. \quad _3_ \\ \times \quad 2 \\ \hline 1876 \end{array}$$

$$\begin{array}{r} 18. \quad _6_ \\ \times \quad 2 \\ \hline 730 \end{array}$$

$$\begin{array}{r} 19. \quad _7_ \\ \times \quad 5 \\ \hline 1355 \end{array}$$

$$\begin{array}{r} 20. \quad 8_4 \\ \times \quad _ \\ \hline 3336 \end{array}$$

$$\begin{array}{r} 21. \quad _5_ \\ \times \quad 3 \\ \hline 1056 \end{array}$$

$$\begin{array}{r} 22. \quad 7_2 \\ \times \quad _ \\ \hline 2226 \end{array}$$

$$\begin{array}{r} 23. \quad _8_ \\ \times \quad 4 \\ \hline 740 \end{array}$$

$$\begin{array}{r} 24. \quad _0_ \\ \times \quad 3 \\ \hline 1200 \end{array}$$

$$\begin{array}{r} 25. \quad 1_9 \\ \times \quad _ \\ \hline 338 \end{array}$$

$$\begin{array}{r} 26. \quad _7_ \\ \times \quad 6 \\ \hline 3456 \end{array}$$

$$\begin{array}{r} 27. \quad 1_6 \\ \times \quad _ \\ \hline 680 \end{array}$$

$$\begin{array}{r} 28. \quad 4_2 \\ \times \quad _ \\ \hline 1446 \end{array}$$

$$\begin{array}{r} 29. \quad _0_ \\ \times \quad 3 \\ \hline 1518 \end{array}$$

$$\begin{array}{r} 30. \quad 4_1 \\ \times \quad _ \\ \hline 2055 \end{array}$$

$$\begin{array}{r} 31. \quad _4_ \\ \times \quad 6 \\ \hline 4494 \end{array}$$

$$\begin{array}{r} 32. \quad _4_ \\ \times \quad 2 \\ \hline 292 \end{array}$$

$$\begin{array}{r} 33. \quad 8_2 \\ \times \quad _ \\ \hline 1644 \end{array}$$

$$\begin{array}{r} 34. \quad 6_3 \\ \times \quad _ \\ \hline 1346 \end{array}$$

$$\begin{array}{r} 35. \quad _0_ \\ \times \quad 5 \\ \hline 4535 \end{array}$$

$$\begin{array}{r} 36. \quad _2_ \\ \times \quad 2 \\ \hline 258 \end{array}$$

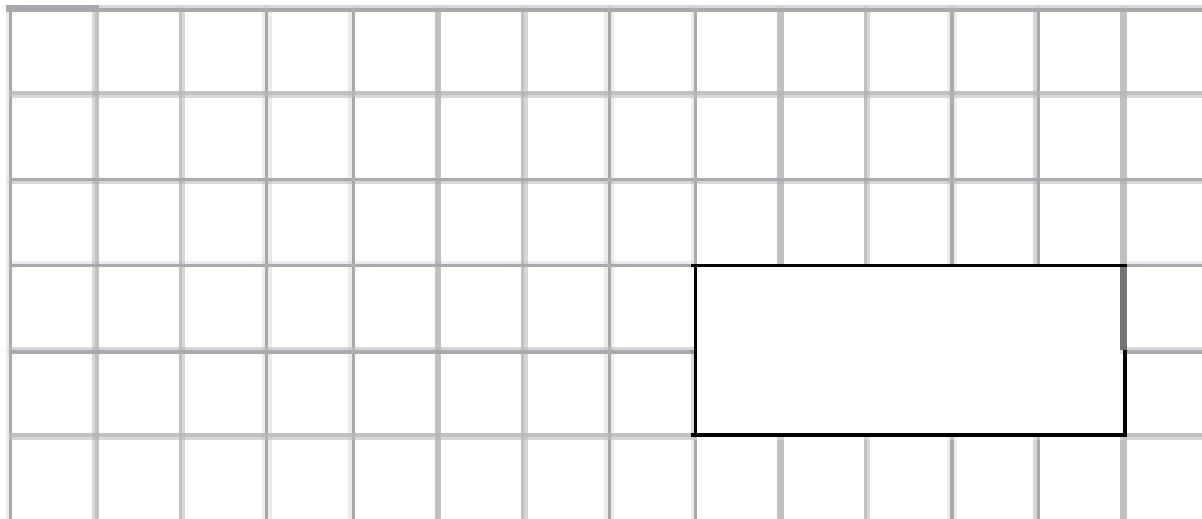
$$\begin{array}{r} 37. \quad _8_ \\ \times \quad 2 \\ \hline 1766 \end{array}$$

$$\begin{array}{r} 38. \quad _6_ \\ \times \quad 4 \\ \hline 3444 \end{array}$$

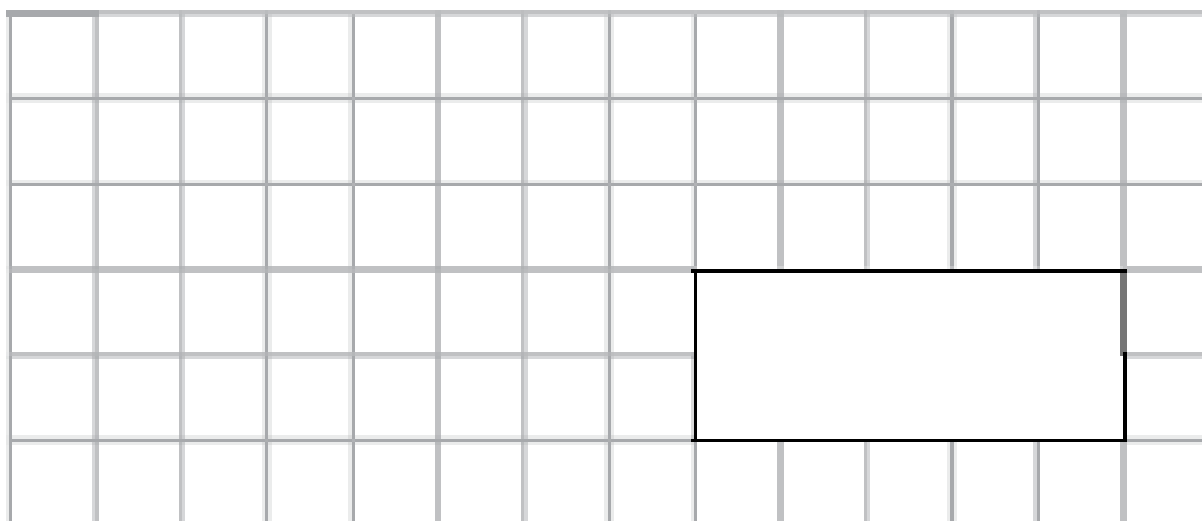
$$\begin{array}{r} 39. \quad _5_ \\ \times \quad 6 \\ \hline 5124 \end{array}$$

$$\begin{array}{r} 40. \quad 6_5 \\ \times \quad _ \\ \hline 3225 \end{array}$$

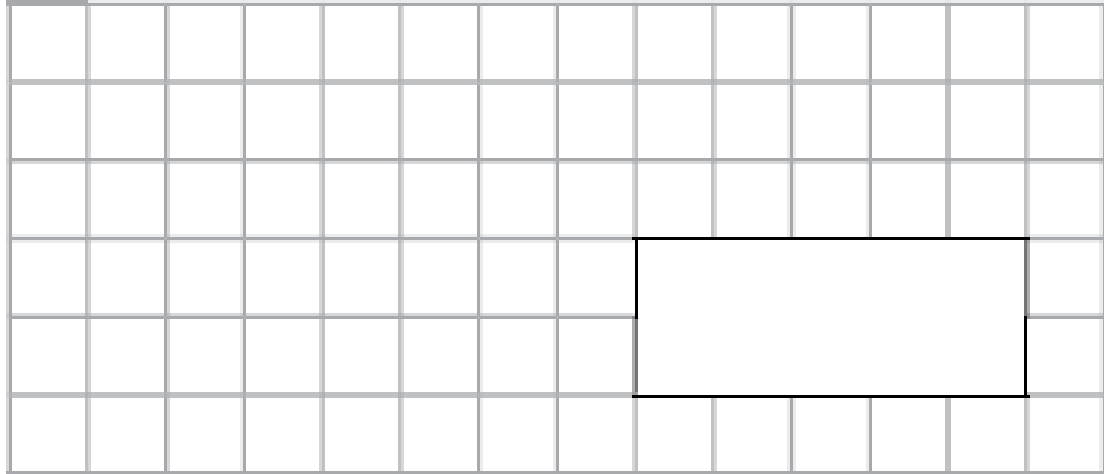
4. How many squares can she make with nine eggs?



5. How many squares can the recipe make if she uses 1kg of butter?



8. Annie's drink is made by mixing 250ml of orange juice with 200ml of apple juice and 50ml of strawberry juice. How much apple juice is needed if she is making her drink contain a total of 250ml?



Mrs Backrath's Maths

Thank you to Twinkl for allowing us to use their amazing resources.

We hope you have enjoyed this week's tasks.

Remember to upload your work to the FROG so your teacher can see all of the amazing hard work you have done!