#  <br> Autumn <br> <br> Home <br> <br> Home <br> Learning Year 5 <br> Pack F <br> Maths 

## In this pack, you will find:

## Maths

10 times table activities
2 calculation practise activity
pages
(for the 4 operations)
2 place value activity pages
2 problem solving activity pages
2 reasoning activity pages

# Times tables 

activities

## Times table Practise 1

How to play:

1. Roll the dice.
2. Multiply your two numbers.
3. Colour your answer on the grid.
4. The first person to colour four in a row wins!

| 18 | 12 | 24 | 8 | 10 | 24 | 6 | 15 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 36 | 30 | 12 | 9 | 2 | 5 | 4 | 18 |
| 4 | 24 | 4 | 8 | 6 | 8 | 15 | 3 |
| 10 | 12 | 25 | 15 | 20 | 6 | 16 | 8 |
| 36 | 12 | 12 | 30 | 5 | 12 | 5 | 30 |
| 10 | 25 | 1 | 9 | 5 | 6 | 10 | 20 |
| 18 | 20 | 9 | 10 | 16 | 15 | 4 | 3 |
| 1 | 30 | 4 | 20 | 2 | 3 | 6 | 15 |

Times table Practise 2 Count in 8 s and colour in the grid:

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |
| 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 |
| 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 |
| 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 |
| 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 |
| 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 |
| 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 |

Work out these answers:
a) $2 \times 8=$
d) $8 \times 8=$
b) $10 \times 8=$
e) $7 \times 8=$
c) $5 \times 8=$ $\qquad$ f) $12 \times 8=$
$\qquad$

How many blocks are there?
a)

$\qquad$ X $\qquad$ $=$ $\qquad$
b)

$\qquad$ x $\qquad$ = $\qquad$
c)

$\qquad$ x $\qquad$ = $\qquad$

Times table Practise 3

## Mixed Tables Test 1

Check

| 1. | $10 \times 7=$ |  |  |
| :---: | :---: | :---: | :---: |
| 2. | $5 \times 7=$ |  |  |
| 3. | $2 \times 7=$ |  |  |
| 4. | $11 \times 10=$ |  |  |
| 5. | $5 \times 12=$ |  |  |
| 6. | $11 \times 2=$ |  |  |
| 7. | $10 \times 4=$ |  |  |
| 8. | $5 \times 10=$ |  |  |
| 9. | $5 \times 2=$ |  |  |
| 10. | $3 \times 10=$ |  |  |
| 11. | $5 \times 6=$ |  |  |
| 12. | $2 \times 8=$ |  |  |
| $M y$ score: |  |  |  |
| 10 |  |  |  |

How I can improve:

Check

| 13. | $10 \div 2=$ |  |  |
| :---: | :---: | :---: | :---: |
| 14. | $15 \div 5=$ |  |  |
| 15. | $12 \div 2=$ |  |  |
| 16. | $20 \div 10=$ |  |  |
| 17. | $20 \div 5=$ |  |  |
| 18. | $16 \div 2=$ |  |  |
| 19. | $10 \div 10=$ |  |  |
| 20. | $60 \div 5=$ |  |  |
| 21. | $4 \div 2=$ |  |  |
| 22. | $50 \div 10=$ |  |  |
| 23. | $50 \div 5=$ |  |  |
| 24. | $18 \div 2=$ |  |  |
| My score last time: |  |  |  |

Times table Practise 4

Check

| 1. | $11 \times 4=$ |  |  |
| :---: | :---: | :---: | :---: |
| 2. | $1 \times 6=$ |  |  |
| 3. | $11 \times 9=$ |  |  |
| 4. | $9 \times 12=$ |  |  |
| 5. | $3 \times 3=$ |  |  |
| 6. | $7 \times 12=$ |  |  |
| 7. | $2 \times 4=$ |  |  |
| 8. | $6 \times 7=$ |  |  |
| 9. | $3 \times 9=$ |  |  |
| 10. | $12 \times 6=$ |  |  |
| 11. | $8 \times 3=$ |  |  |
| 12. | $7 \times 10=$ |  |  |
| My score: |  |  |  |
|  |  |  |  |
| 10 |  |  |  |


| 13. | $16 \div 4=$ |  |  |
| :---: | :---: | :---: | :---: |
| 14. | $60 \div 6=$ |  |  |
| 15. | $9 \div 9=$ |  |  |
| 16. | $108 \div 12=$ |  |  |
| 17. | $33 \div 3=$ |  |  |
| 18. | $49 \div 7=$ |  |  |
| 19. | $24 \div 4=$ |  |  |
| 20. | $12 \div 6=$ |  |  |
| 21. | $27 \div 9=$ |  |  |
| 22. | $96 \div 12=$ |  |  |
| 23. | $21 \div 3=$ |  |  |
| 24. | $84 \div 7=$ |  |  |
| My score last time: |  |  |  |

How I can improve:

## Times table Practise 5

## Missing number challenge!

| $2 \times \ldots=8$ | $40=\ldots \times 10$ | $12 \times \ldots=144$ | $11 \times$ | $\ldots \times 3=21$ | $48=12 \times$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\ldots \times 1=3$ | $\ldots \times 4=24$ | $\ldots \times 5=30$ | $35=\ldots \times 5$ | $8 \times \ldots=72$ | $8 \times \ldots=24$ |
| $\ldots=5 \times 2$ | $3 \times \ldots=21$ | $4 \times \ldots=44$ | $\ldots \times 8=40$ | $5 \times 4=$ | $120=\ldots \times 10$ |
| $4 \times \ldots=16$ | $8 \times 11=$ | $48=6 \times$ | $9 \times \ldots=36$ | $11 \times \ldots=121$ | $\ldots \times 4=16$ |
| $10 \times \ldots=60$ | $7 \times \ldots=35$ | $9 \times \ldots=90$ | $1 \times \ldots=8$ | $18=3 \times$ | $9 \times \ldots=18$ |
| $\ldots 4=8$ | $\ldots \times 9=18$ | $\ldots \times 6=12$ | $12 \times$ | $\ldots \times 6=48$ | $30=\ldots 5$ |
| 16 | $8 \times \ldots=80$ | $7 \times 7$ | $\ldots \times 9=63$ | $\ldots \times 9=27$ | $9 \times \ldots=36$ |
| $5 \times 3=$ | $\ldots \times 2=12$ | $\ldots \times 1=8$ | $\ldots \times 10=30$ | $24=4 \times$ | $2 \times \ldots=14$ |
| $\ldots \times 3=30$ | $20=\ldots \times 5$ | $\ldots \times 9=81$ | $9 \times \ldots=54$ | $\ldots \times 7=49$ | $8 \times 5=$ |
| $\ldots \times 1=12$ | $12 \times \ldots=72$ | $36=12 \times$ | - $\times 4=12$ | $12 \times \ldots=144$ | $3 \times \ldots=12$ |
| $3 \times \ldots=18$ | $\underline{L}=3 \times 3$ | $10 \times$ | $8 \times \ldots=64$ | $6 \times \ldots=18$ | - $\times 6=36$ |
| $\ldots \times 4=44$ | $8 \times \ldots=32$ | $8 \times \ldots=56$ | $\underline{=} 2 \times 7$ | $8 \times \ldots=56$ | _ $\times 9=99$ |
| $7 \times \ldots=14$ | - $\times 4=16$ | $\underline{\square} \times 10=30$ | $12 \times \ldots=132$ | $4 \times 10=$ | $28=4 \times$ |
| $8 \times 3=$ | $\ldots \times 7=70$ | $5 \times \ldots=40$ | $25=\ldots \times 5$ | $\ldots \times 2=16$ | $9 \times 3=$ |
| $20=4 \times$ | $5 \times \ldots=25$ | $\ldots \times 2=4$ | - $\times 8=16$ | - $\times 4=28$ | $5 \times \ldots=25$ |
| $11 \times \ldots=99$ | - $\times 3=33$ | $9 \times 5=$ | $24=8 \times$ | $9 \times \ldots=45$ | $7 \times \ldots=21$ |
| $\ldots \times 3=12$ | - $\times 4=36$ | $3 \times \ldots=12$ | $77=11 \times$ | - $\times 6=72$ | - $\times 4=24$ |
| $9 \times \ldots=18$ | $\underline{=} 7 \times 1$ | $8 \times \ldots=32$ | - $\times 6=18$ | $3 \times 3=$ | $12 \times \ldots=24$ |
| $5 \times 10=$ | $\underline{ } \times 11=66$ | $\ldots \times 9=45$ | $\underline{=}=11 \times 8$ | $8 \times \ldots=48$ | $\ldots \times 5=45$ |
| - $\times 2=6$ | - $\times 6=36$ | $48=\ldots \times 4$ | $12 \times \ldots=144$ | $5 \times \ldots=60$ | $7 \times \ldots=49$ |
| - $\times 3=21$ | $10 \times \ldots=50$ | $5 \times \ldots=10$ | $15=\ldots \times 3$ | $4 \times \ldots=12$ | $\ldots \times 8=96$ |
| $8 \times \ldots=40$ | $18=\ldots \times 3$ | $9 \times 1=$ | $2 \times \ldots=12$ | $7 \times \ldots=42$ | $3 \times \ldots=24$ |
| $11 \times 2=$ | $9 \times \ldots=27$ | $\ldots \times 7=14$ | $9 \times \ldots=27$ | $66=\ldots \times 6$ | $5 \times \ldots=15$ |
| $\ldots \times 12=60$ | $10 \times 10=$ | $12 \times \ldots=84$ | $\ldots \times 2=16$ | $32=8 \times$ | $\underline{\sim} \times 12=144$ |

## Times table Practise 6

## Multiplication Tables Crossword



## ACROSS

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

DOWN

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

Times table Practise 7

Times Tables Test!
How many can you do in the time given?

| Column 1 | Column 2 | Column 3 | Column 4 | Column 5 |
| :--- | :--- | :--- | :--- | :--- |
| $5 \times 6=$ | $4 \times 3=$ | $3 \times 9=$ | $2 \times 9=$ | $8 \times 5=$ |
| $8 \times 3=$ | $9 \times 9=$ | $5 \times 5=$ | $7 \times 9=$ | $2 \times 2=$ |
| $8 \times 2=$ | $6 \times 5=$ | $4 \times 5=$ | $5 \times 3=$ | $8 \times 5=$ |
| $7 \times 3=$ | $10 \times 9=$ | $3 \times 5=$ | $5 \times 10=$ | $7 \times 10=$ |
| $3 \times 6=$ | $6 \times 9=$ | $7 \times 2=$ | $5 \times 4=$ | $2 \times 4=$ |
| $6 \times 10=$ | $4 \times 6=$ | $4 \times 9=$ | $3 \times 4=$ | $2 \times 6=$ |
| $8 \times 9=$ | $3 \times 10=$ | $7 \times 5=$ | $4 \times 9=$ | $9 \times 3=$ |
| $8 \times 4=$ | $9 \times 5=$ | $12 \times 3=$ | $11 \times 4=$ | $9 \times 10=$ |
| $5 \times 9=$ | $6 \times 8=$ | $11 \times 9=$ | $10 \times 6=$ | $9 \times 4=$ |
| $12 \times 4=$ | $11 \times 3=$ | $6 \times 6=$ | $10 \times 5=$ | $10 \times 10=$ |
| $4 \times 4=$ | $12 \times 9=$ | $2 \times 3=$ | $11 \times 5=$ | $6 \times 3=$ |
| $8 \times 5=$ | $8 \times 4=$ | $11 \times 10=$ | $7 \times 4=$ | $7 \times 6=$ |
| $8 \times 6=$ | $3 \times 8=$ | $12 \times 6=$ | $11 \times 6=$ | $10 \times 4=$ |
| $12 \times 5=$ | $6 \times 4=$ | $9 \times 6=$ | $12 \times 10=$ | $3 \times 7=$ |

## Times table Practise 8

Practice it


Place the following numbers correctly in the diagram above. Place the following numbers correctly in the diagram above.

| 8 | 2 | 6 | 12 | 9 | 16 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 30 | 7 | 15 | 36 | 20 | 34 |


| 24 | 10 | 6 | 18 | 39 | 90 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 30 | 63 | 25 | 60 | 45 | 36 |

Improve it


Place numbers of your choice to satisfy the Venn Diagram. Master it



Place numbers of your choice to satisfy the Venn Diagram.


Place these numbers correctly into the Venn Diagramabove. Place these numbers correctly into the Venn Diagram above

| 70 | 21 | 15 | 7 | 63 | 36 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 44 | 35 | 3 | 37 | 9 | 56 |


| 80 | 28 | 12 | 72 | 60 | 16 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 12 | 10 | 24 | 84 | 8 | 56 |

## Times table Practise 9

## 8 Times Table Code Breaking

Use your knowledge of the 8 times table to help crack the code and find out who stole Bart's skate board!
$1.8 \times 3$
$2.8 \times 5$
$3.8 \times 9$
$4.8 \times 7$
$5.8 \times 12$
$6.8 \times 8$

| A | B | C | D | E | F | G | H | I | J |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 80 | 48 | 8 | 96 | 42 | 77 | 23 | 87 | 15 | 25 |
| K | L | M | N | O | P | Q | R | S | T |
| 24 | 67 | 43 | 103 | 44 | 89 | 66 | 40 | 56 | 96 |
| U | V | W | X | Y | Z |  |  |  |  |
| 72 | 20 | 74 | 23 | 64 | 18 |  |  |  |  |

## Times table Practise 10

| A | B | C | D | E | F | G | H | I | J | K | L | M |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 21 | 25 | 7 | 14 | 30 | 16 | 60 | 74 | 12 | 10 | 3 | 1 | 8 |
| N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
| 63 | 36 | 57 | 9 | 34 | 52 | 24 | 19 | 17 | 49 | 33 | 11 | 87 |

## WHY DID THE BIRD GO TO THE DOCTORS?

```
4X6 9X4
```

```
10\times6 5\times6 2\times12
```

$7 \times 3$

| $3 \times 8$ | $7 \times 7$ | $3 \times 10$ | $6 \times 5$ | $6 \times 4$ | $1 \times 8$ | $10 \times 3$ | $9 \times 7$ | $8 \times 3$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

## Calculation strategies



## Calculation practise 1

Use your Year 5 written method to solve the below calculations. Look at the operation being used and use the written method help sheet.

## Addition

$$
\begin{aligned}
& 45+88= \\
& 456+624= \\
& 666+456= \\
& 1,152+4,502= \\
& 123,560+89,456=
\end{aligned}
$$

## Multiplication

$24 \times 9=$
$45 \times 5=$
$567 \times 8=$
$687 \times 7=$
$1009 \times 4=$

## Subtraction

85-45=
555-102 =
$1456-0214=$
$10,023-451=$
$88,564-66,245=$

## Division

$45 \div 5=$
$68 \div 5=$
$321 \div 10=$
$2358 \div 100=$

## Calculation practise 2

Use your Year 5 written method to solve the below calculations. Look at the operation being used and use the written method help sheet.

## Addition

$896+1598=$
$15,456+30,033=$
$88,740+5,680$
$123.5+456.2=$
$456.02+10.23=$

## Multiplication

$57 \times 3=$
$68 \times 6=$
$128 \times 7=$
$153 \times 6=$
$465 \times 47=$

## Subtraction

$85-9=$
880-564 =
4068-3123=
$897.56-220.45=$
30,001-29,000 =

## Division

$150 \div 2=$
$99 \div 3=$
$1444 \div 12=$
$6851 \div 4=$

## Place value 1

Tommy says he can order the following numbers by only looking at the first three digits.
12,516
12,832

12,679

12,538
12,794
Is he correct?

Explain your answer.
What number is represented below?

| $10,000 \mathrm{~s}$ | 1,000 | 100 e | 10 s | 1 s |
| :---: | :---: | :---: | :---: | :---: |
| 0 |  | 100 | 0 | 1 |
|  |  | 1000 |  | 0 |

Georgia says that the number is multiple of 5
Is Georgia correct? Explain your answer.

## Place value 2

Complete the missing numbers.

$$
\begin{aligned}
& 47,603=40,000+\ldots------\infty+600+3 \\
& =50,000+300+70+4
\end{aligned}
$$

$$
80,000+7,000+\ldots=88,300
$$

What is the missing number?

| 305,700 |  |  |
| :---: | :---: | :---: |
| 300,000 | $?$ | 700 |

Complete the missing numbers.

| 19 | 10,019 |  | 30,019 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |

Arrange the digit cards to make an odd number between 70,000 and 100,000


Round your number to the nearest 1,000

Round your number to the nearest 10,000

## Problem solving 1

Here are the answers to some problems:
5,700 $405 \quad 397 \quad 6,203$

Can you write at least two questions for each answer involving dividing by 10,100 or 1,000 ?

I am thinking of two 2-digit numbers.

Both of the numbers have a digit total of six.
Their common factors are:

$$
\mathrm{I}, 2,3,4,6 \text { and } 12
$$

What are the numbers?

Dora says all prime numbers have to be odd.

Her friend Amir says that means all odd numbers are prime, so 9, 27 and 45 are prime numbers.


Explain Amir's and Dora's mistakes and correct them.

## Problem solving 2

Here are 3 cards


On each card there is a cube number. Use these calculations to find each number.

$$
\begin{gathered}
A \times A=B \\
B+B-3=C
\end{gathered}
$$

Digit total of $\mathrm{C}=\mathrm{A}$

Jack is thinking of a 3-digit number.

When he multiplies his number by 100 , the ten thousands and hundreds digit are the same.

The sum of the digits is 10

What number could Jack be thinking of?

## Reasoning 1

This table shows the ticket prices for a theme park.

|  | Monday - Friday | Saturday and Sunday |
| :---: | :---: | :---: |
| Adult | $£ 18.50$ | $£ 21$ |
| Child | $£ 12.50$ | $£ 14$ |

A family of 2 adults and 2 children are planning to go to the theme park.

How much more would it cost to go on Saturday rather than Thursday?

A toy shop has 2,328 games in stock.
They receive 981 more games.
They sell 1,435 games.
How many games does the toy shop have now?

Mrs Hyde bakes 180 cookies.
She sells them in boxes of 10
Each box costs £4
How much money does she make in total?

## Reasoning 2

Complete the missing digits.

$$
\begin{array}{r}
28 \\
-159 \\
\hline 1: \ldots 403 \\
\hline
\end{array}
$$

Class 1 and Class 2 have a total of 675 house points.
Class 1 have double the number of house points that Class 2 have.
How many house points do Class 2 have?

Write each number in it's correct place on the diagram.

$$
\begin{array}{llllll}
4 & 8 & 16 & 32 & 40 & 48
\end{array}
$$

One has been done for you.

$$
\text { Factors of } 48 \quad \text { Multiples of } 8
$$



