

# Meerkats

## Multiplication games

Name \_\_\_\_\_

### Vocabulary

- **Factor** - a number that divides exactly into another number.

e.g. factors of 12 are 1,2,3,4,6,12.

- **Common factor** - factors of two numbers that are the same.

e.g. common factors of 8 and 12 are 1,2,4.

- **Product** - result of two factors multiplied against each other

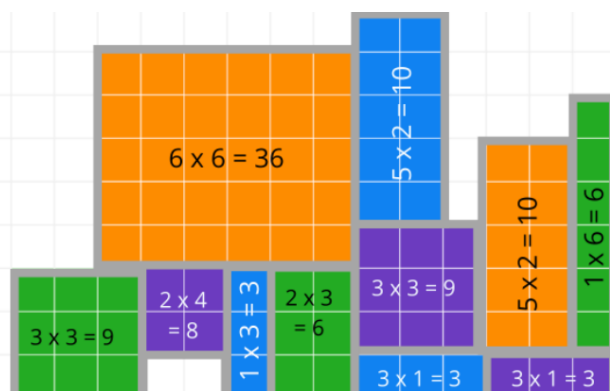
e.g.  $3 \times 5 = 15$

- **Multiple** - a number in another number's times table

e.g. multiples of 9 are 9,18,,27,36...

### Multiplication tetris

Roll 2 dice to generate a multiplication calculation, draw an array on squared paper to represent it. Can you fit the arrays together?



### Make it

Practise making multiplication number sentences using things around the house! Can you use the commutative rule to write them different ways?



### Time it

Use a timer to see how many times tables you can remember in a minute. How long does it take to say the 8 times table?



### Fortune teller

Make a 'fortune teller' game to help remember those tricky times tables! You could alternate putting the calculations or the answers on the inside!



### Rainbow tables

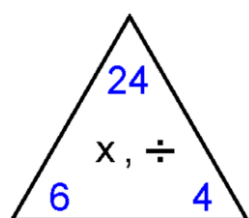
Write out a times table in rainbow colours, or in a pattern!

$$\begin{array}{ll} 3 \times 1 = 3 & 3 \times 6 = 18 \\ 3 \times 2 = 6 & 3 \times 7 = 21 \\ 3 \times 3 = 9 & 3 \times 8 = 24 \\ 3 \times 4 = 12 & 3 \times 9 = 27 \\ 3 \times 5 = 15 & 3 \times 10 = 30 \end{array}$$

### Fact families

Create fact families and write the multiplication and division facts that match!

Fact Family



- ♦  $6 \times 4 = 24$
- ♦  $4 \times 6 = 24$
- ♦  $24 \div 6 = 4$
- ♦  $24 \div 4 = 6$

### Arrays in the environment

Can you find things around the house that show multiplication calculations?



### Multiplication square

Colour in the times table facts that you know off by heart, and practise the ones that you're not sure of!

| ×  | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9   | 10  | 11  | 12  |
|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|
| 1  | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9   | 10  | 11  | 12  |
| 2  | 2  | 4  | 6  | 8  | 10 | 12 | 14 | 16 | 18  | 20  | 22  | 24  |
| 3  | 3  | 6  | 9  | 12 | 15 | 18 | 21 | 24 | 27  | 30  | 33  | 36  |
| 4  | 4  | 8  | 12 | 16 | 20 | 24 | 28 | 32 | 36  | 40  | 44  | 48  |
| 5  | 5  | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45  | 50  | 55  | 60  |
| 6  | 6  | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54  | 60  | 66  | 72  |
| 7  | 7  | 14 | 21 | 28 | 35 | 42 | 49 | 56 | 63  | 70  | 77  | 84  |
| 8  | 8  | 16 | 24 | 32 | 40 | 48 | 56 | 64 | 72  | 80  | 88  | 96  |
| 9  | 9  | 18 | 27 | 36 | 45 | 54 | 63 | 72 | 81  | 90  | 99  | 108 |
| 10 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90  | 100 | 110 | 120 |
| 11 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 99  | 110 | 121 | 132 |
| 12 | 12 | 24 | 36 | 48 | 60 | 72 | 84 | 96 | 108 | 120 | 132 | 144 |