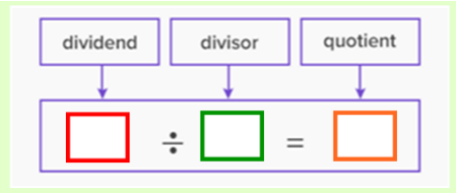
W/C 7th February 2022 Session 1

Using arrays to understand division

| Draw arrays for the following dividends: | Challenge:<br>Draw arrays for the following quotients |
|---|---|
| 8 | 2 |
| 12 | 3 |
| 15 | 5 |
| 24 | 6 |

Write the division calculation for each array.

Write the stem sentence beside each array.




**The dividend is_____.**

**If we share the dividend into ___ equal groups, the divisor is ____.**

**The quotient is the number in each group, which is ____.**

W/C 7th February 2022

Using arrays to understand division

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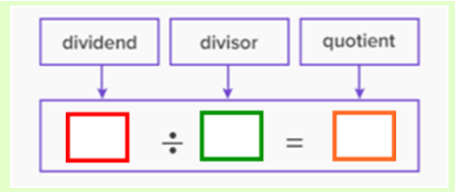



**The dividend is_____.**

**If we share the dividend into ___ equal groups, the divisor is ____.**

**The quotient is the number in each group, which is ____.**

W/C 7th February 2022 Session 2

Using the inverse to solve division problems

1. Match the division fact to the multiplication fact.

| | |
|---|---|
| 15 ÷ 3 = 5 | 9 x 4 = 36 |
| 36 ÷ 4 = 9 | 3 x 4 = 12 |
| 12 ÷ 4 = 3 | 5 x 3 = 15 |
| 56 ÷ 7 = 8 | 8 x 7 = 56 |

2. If this is the multiplication, what is the division calculation?

6 x 4 = 24

24 ÷ 4 = ☐

8 x 11 = 88

88 ÷ 11 = ☐

3. Solve division calculations using the inverse.

3 x 12 = ☐

☐ ÷ ☐ = ☐

7 x 7 = ☐

☐ ÷ ☐ = ☐

W/C 7th February 2022 Session 2 - Challenge

Using the inverse to solve division problems

1. What is the divisor?

3 x ☐ = 36

6 x ☐ = 54

36 ÷ ☐ = 3

54 ÷ ☐ = 6

48 ÷ ☐ = 12

39 ÷ ☐ = 13

72 ÷ ☐ = 9

55 ÷ ☐ = 5

W/C 7th February 2022 Session 2 - Chilli Challenge

Using the inverse to solve division problems

How can you use multiplications to solve the following division calculations? Explain your reasoning and use representations to show your thinking.

1. 36 ÷ 9
2. 48 ÷ 6
3. 96 ÷ 8

W/C 7th February 2022 Session 2 - Chilli Challenge

Using the inverse to solve division problems

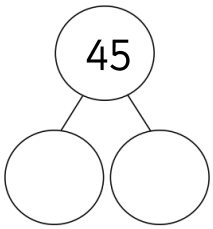
How can you use multiplications to solve the following division calculations? Explain your reasoning and use representations to show your thinking.

1. 36 ÷ 9
2. 48 ÷ 6
3. 96 ÷ 8

W/C 7th February 2022 Session 3

Using partitioning and the inverse to solve division

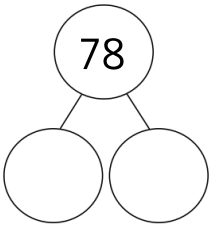
1. Partition this number into two multiples of 3:




2. How many groups of 3 are there in each number?

3. How many groups of 3 are there in total in 45?

1. Partition this number into two multiples of 6:




2. How many groups of 6 are there in each number?

3. How many groups of 6 are there in total in 78?

W/C 7th February 2022 Session 3

**Challenge:** Using partitioning and the inverse to solve division problems

Use partitioning and the inverse multiplication to solve these division problems.

Show how you solved the problems in your maths book.

1. 56 ÷ 4 =
2. 54 ÷ 3 =
3. 84 ÷ 6 =
4. 98 ÷ 7 =
5. 104 ÷ 8 =
6. 136 ÷ 8 =

W/C 7th February 2022 Session 3

**Challenge:** Using partitioning and the inverse to solve division problems

Use partitioning and the inverse multiplication to solve these division problems.

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2. 54 ÷ 3 =
3. 84 ÷ 6 =
4. 98 ÷ 7 =
5. 104 ÷ 8 =
6. 136 ÷ 8 =

W/C 7th February 2022 Session 3

**Chilli Challenge:** Using partitioning and the inverse to solve division problems

**7 x 9 = 63**

Use this fact to work out:

126 ÷ 9 =

252 ÷ 7 =

Journal your thinking and explain your answers.

W/C 7th February 2022 Session 3

**Chilli Challenge:** Using partitioning and the inverse to solve division problems

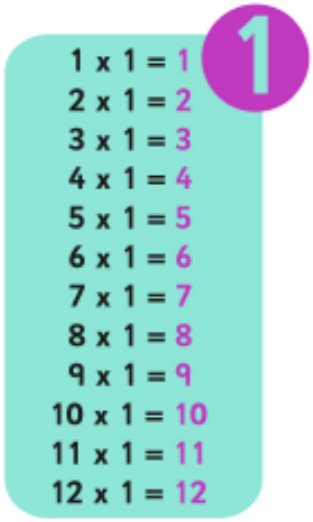
**7 x 9 = 63**

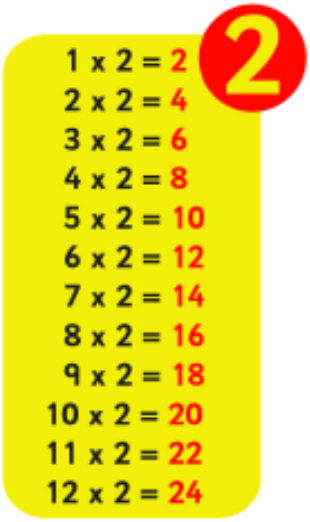
Use this fact to work out:

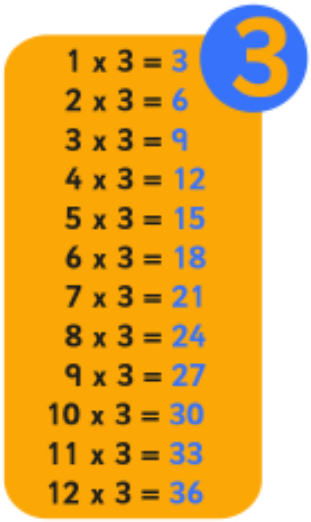
126 ÷ 9 =

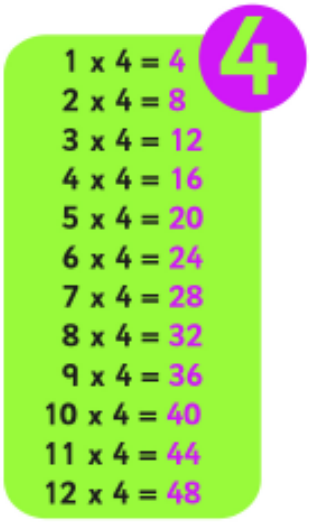
252 ÷ 7 =

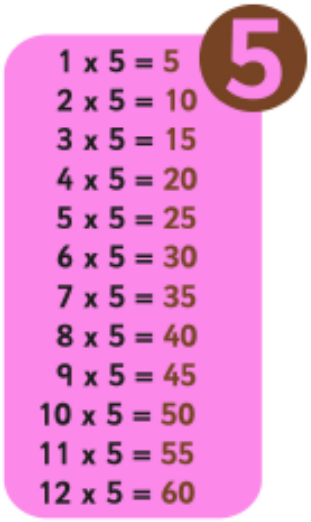
Journal your thinking and explain your answers.

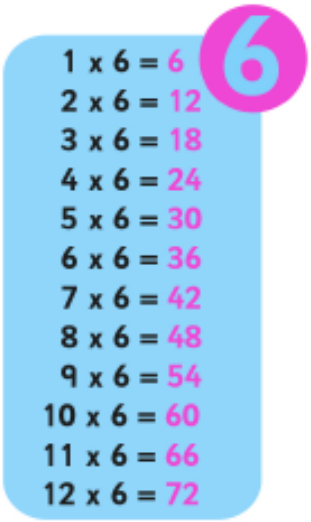

1
1 x 1 = 1
2 x 1 = 2
3 x 1 = 3
4 x 1 = 4
5 x 1 = 5
6 x 1 = 6
7 x 1 = 7
8 x 1 = 8
9 x 1 = 9
10 x 1 = 10
11 x 1 = 11
12 x 1 = 12

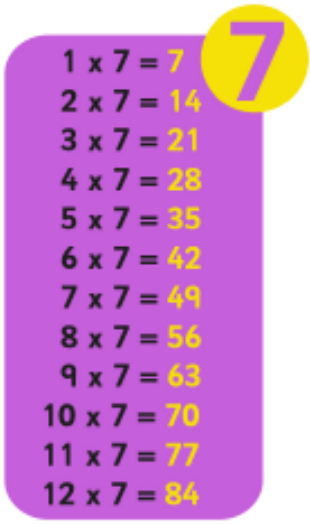

2
1 x 2 = 2
2 x 2 = 4
3 x 2 = 6
4 x 2 = 8
5 x 2 = 10
6 x 2 = 12
7 x 2 = 14
8 x 2 = 16
9 x 2 = 18
10 x 2 = 20
11 x 2 = 22
12 x 2 = 24

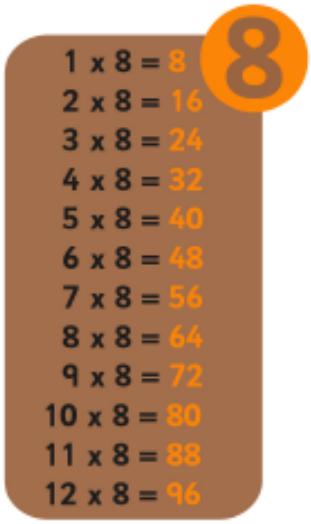

3
1 x 3 = 3
2 x 3 = 6
3 x 3 = 9
4 x 3 = 12
5 x 3 = 15
6 x 3 = 18
7 x 3 = 21
8 x 3 = 24
9 x 3 = 27
10 x 3 = 30
11 x 3 = 33
12 x 3 = 36

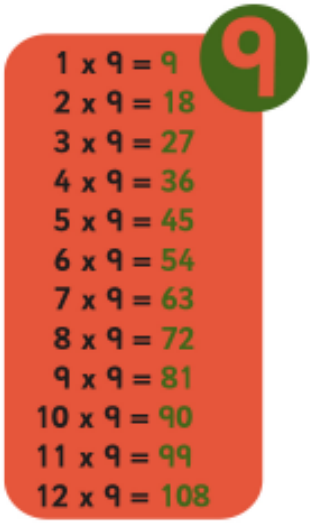

4
1 x 4 = 4
2 x 4 = 8
3 x 4 = 12
4 x 4 = 16
5 x 4 = 20
6 x 4 = 24
7 x 4 = 28
8 x 4 = 32
9 x 4 = 36
10 x 4 = 40
11 x 4 = 44
12 x 4 = 48

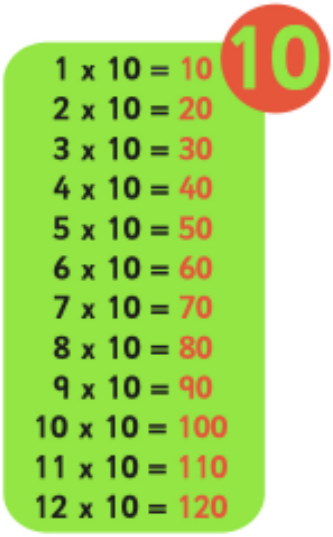

5
1 x 5 = 5
2 x 5 = 10
3 x 5 = 15
4 x 5 = 20
5 x 5 = 25
6 x 5 = 30
7 x 5 = 35
8 x 5 = 40
9 x 5 = 45
10 x 5 = 50
11 x 5 = 55
12 x 5 = 60

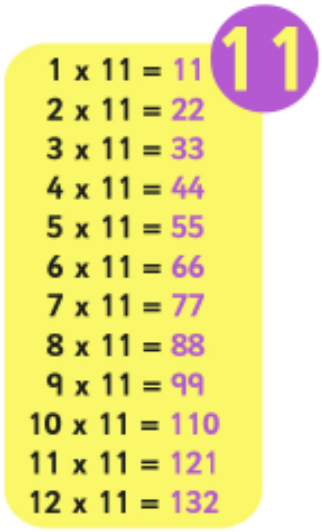

6
1 x 6 = 6
2 x 6 = 12
3 x 6 = 18
4 x 6 = 24
5 x 6 = 30
6 x 6 = 36
7 x 6 = 42
8 x 6 = 48
9 x 6 = 54
10 x 6 = 60
11 x 6 = 66
12 x 6 = 72

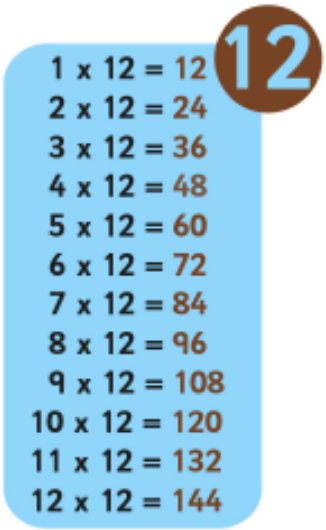
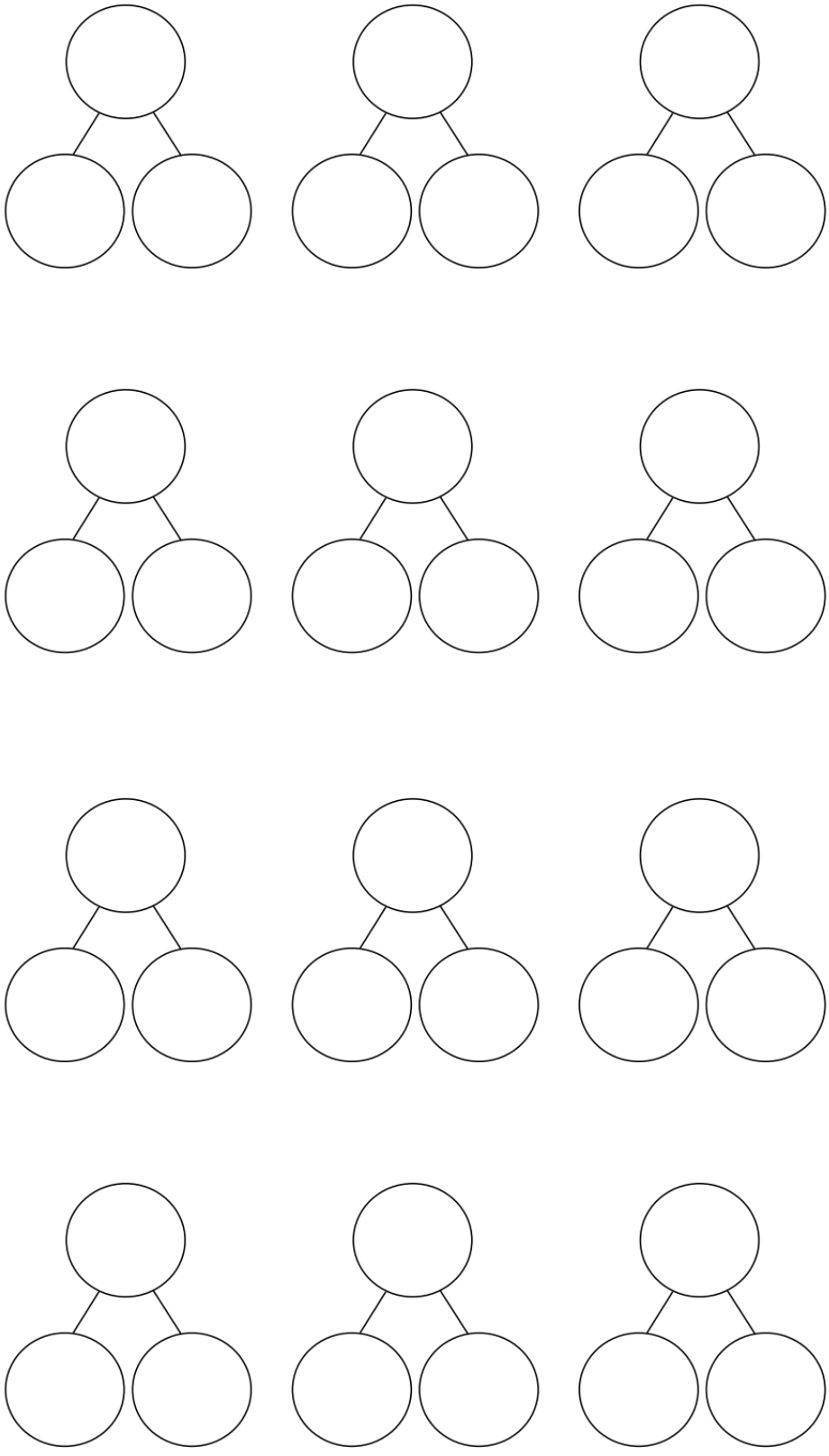

7
1 x 7 = 7
2 x 7 = 14
3 x 7 = 21
4 x 7 = 28
5 x 7 = 35
6 x 7 = 42
7 x 7 = 49
8 x 7 = 56
9 x 7 = 63
10 x 7 = 70
11 x 7 = 77
12 x 7 = 84


8
1 x 8 = 8
2 x 8 = 16
3 x 8 = 24
4 x 8 = 32
5 x 8 = 40
6 x 8 = 48
7 x 8 = 56
8 x 8 = 64
9 x 8 = 72
10 x 8 = 80
11 x 8 = 88
12 x 8 = 96


9
1 x 9 = 9
2 x 9 = 18
3 x 9 = 27
4 x 9 = 36
5 x 9 = 45
6 x 9 = 54
7 x 9 = 63
8 x 9 = 72
9 x 9 = 81
10 x 9 = 90
11 x 9 = 99
12 x 9 = 108


10
1 x 10 = 10
2 x 10 = 20
3 x 10 = 30
4 x 10 = 40
5 x 10 = 50
6 x 10 = 60
7 x 10 = 70
8 x 10 = 80
9 x 10 = 90
10 x 10 = 100
11 x 10 = 110
12 x 10 = 120


11
1 x 11 = 11
2 x 11 = 22
3 x 11 = 33
4 x 11 = 44
5 x 11 = 55
6 x 11 = 66
7 x 11 = 77
8 x 11 = 88
9 x 11 = 99
10 x 11 = 110
11 x 11 = 121
12 x 11 = 132


12
1 x 12 = 12
2 x 12 = 24
3 x 12 = 36
4 x 12 = 48
5 x 12 = 60
6 x 12 = 72
7 x 12 = 84
8 x 12 = 96
9 x 12 = 108
10 x 12 = 120
11 x 12 = 132
12 x 12 = 144