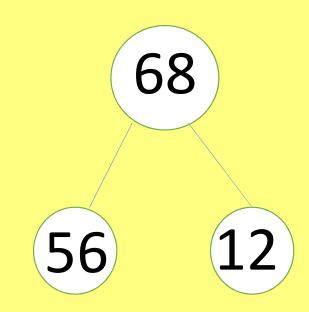
Maths Workshop for Parents

November 2023

Addition



Use known number facts

Part part whole

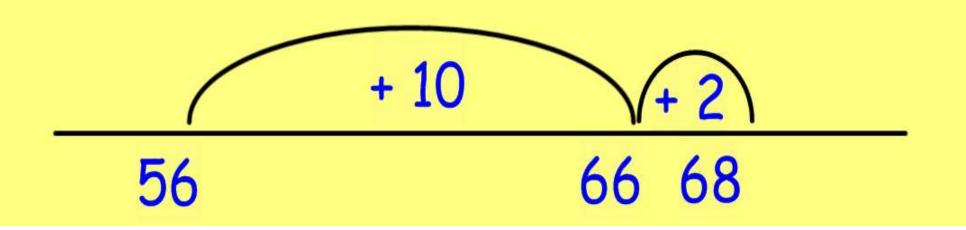


Children explore ways of making numbers within 20

Addition

56 + 12 =

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | q | 10 |
|----|----|----|----|----|----|----|----|----|-----|
| П | 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 |
| qı | 92 | 93 | 94 | 95 | 96 | 97 | 98 | qq | 100 |



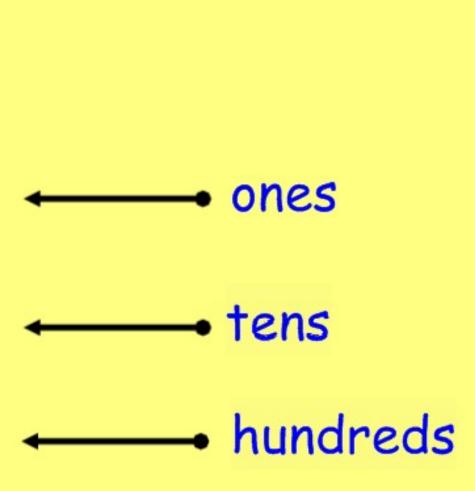
16 + 16 =

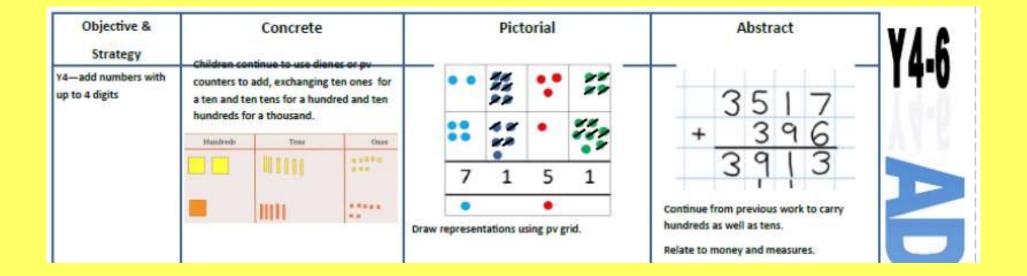
Have a go!

$$167 + 34 =$$

Something more familiar?

3 6 8 +4 9 3





Subtraction (Take away)

| 1 2 3 4 5 6 7 8 |
|-----------------|
|-----------------|

Subtraction (finding the difference)

35 - 12 =

Subtraction (finding the difference) Using a number line

35 - 12 =

12 20

30

3.

Always check subtraction by using the inverse operation.

$$23 + 12 = 35$$

45 - 34 =

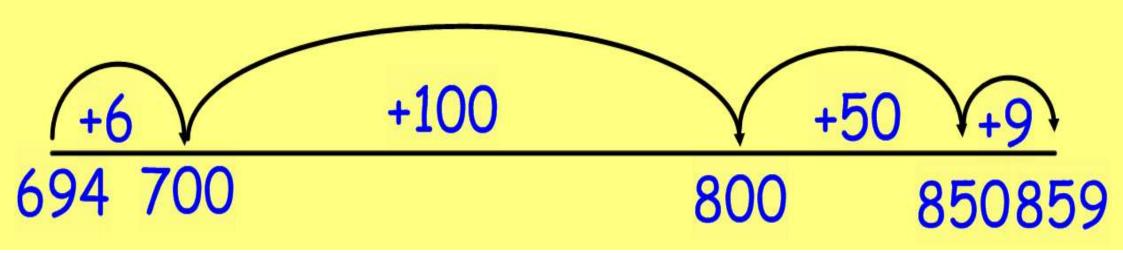
Have a go!

126 - 75 =

Number sentences are less useful as partitioning generally cannot be used.

In the example 73 - 26 = it is possible to start with 70 - 20 but 3-6 is less useful!

Numberlines make the calculation easier.



Using addition for subtraction

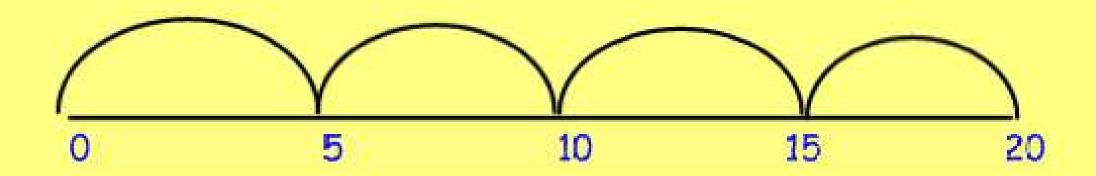
```
859
       700
100
       800
       850
 50
       859
165
```

| Objective & Strategy | Concrete | Pictorial | Abstract | | |
|---|--|---|---|--|--|
| Subtracting tens and ones Year 4 subtract with up to 4 digits. Introduce decimal subtraction through context of money | 234 - 179 O O O O O O O O O O O O O O O O O O O | Children to draw place value counters to show their exchange. | Begin with expanded versions 200 30 4 100 70 9 0 50 5 Use language of 'exchange' rather than borrow. | | |

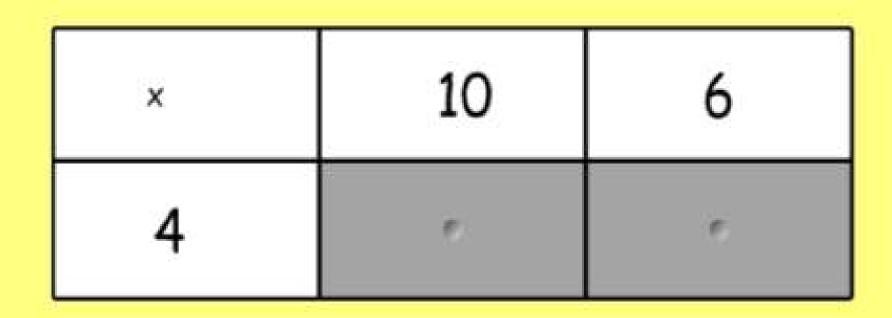


Multiplication $4 \times 5 =$

4 lots of 5 00000 00000 00000 00000



4 x 16 =



 $4 \times 16 =$

| × | 10 | 6 |
|---|----|----|
| 4 | 40 | 24 |

$24 \times 31 =$

| × | 20 | 4 | |
|----|-----|-----|--|
| 30 | 600 | 120 | |
| 1 | 20 | 4 | |

 $5 \times 18 =$

 $43 \times 29 =$

This can be extended to larger numbers and decimals.

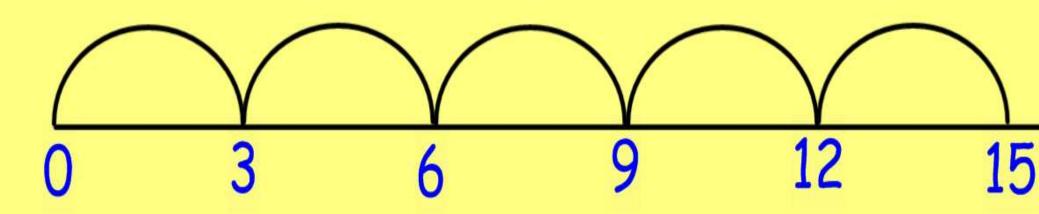
53.5 x 17 =

| 11 | × | 50 | 3 | 0.5 | |
|----|----|-------|-----|------|--|
| | 10 | 500 | 30 | 5 | |
| | 7 | 350 | 21 | 3.5 | |
| | | = 850 | =51 | =8.5 | |

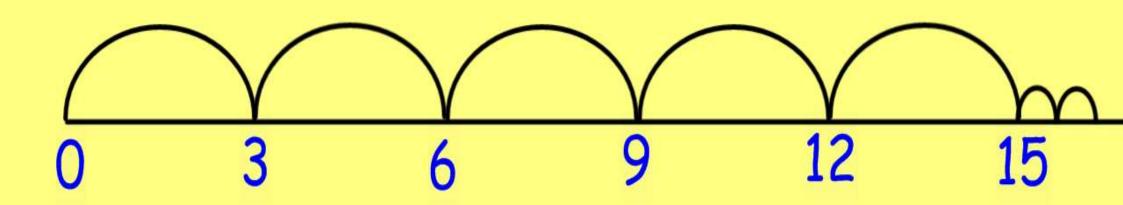


Use the inverse operation to check your answer

15 ÷ 3 =



Division with remainders

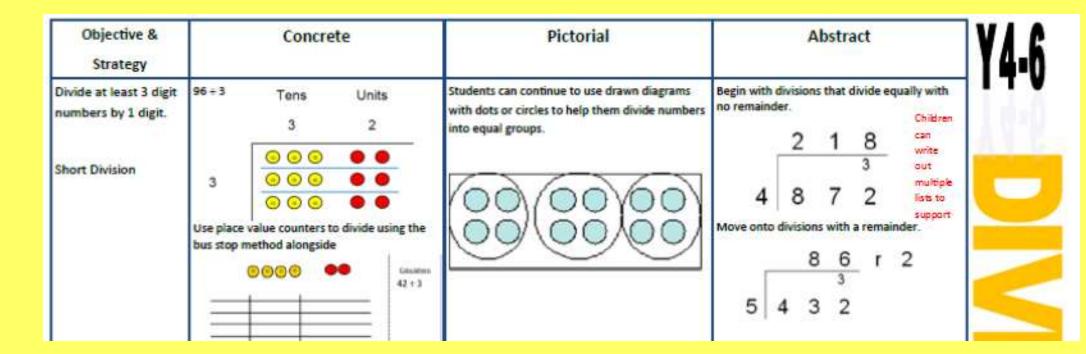


65 ÷ 5 =

110 : 11 =

Chunking Method for Division

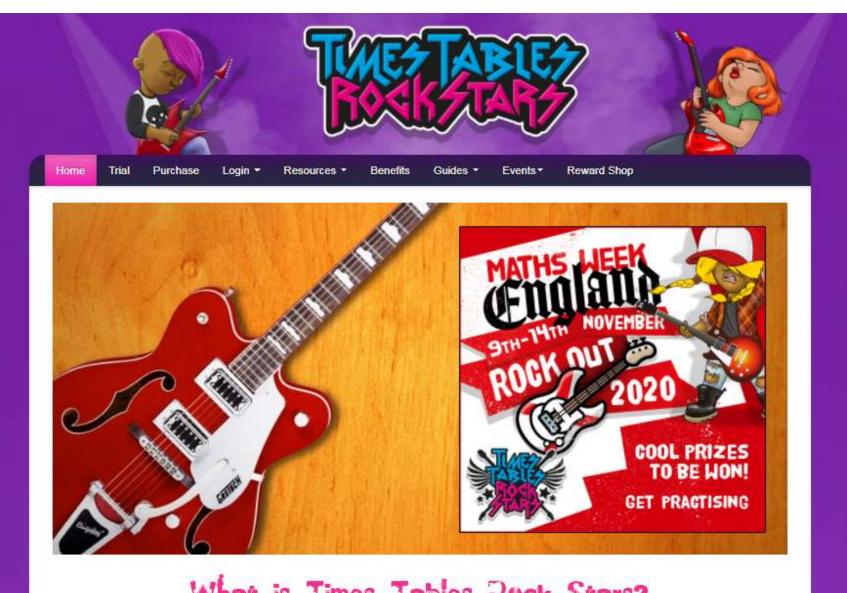
$$= 29^{r_2}$$





Learning Zone





What is Times Tables Rock Stars?