



What number is represented?

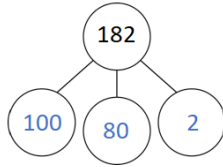


There are 5 hundreds, 2 tens and 3 ones

The number is 523

Represent 4-digit numbers

Partition 182

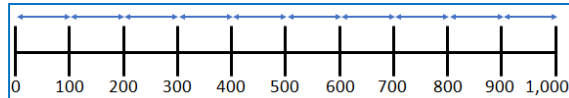
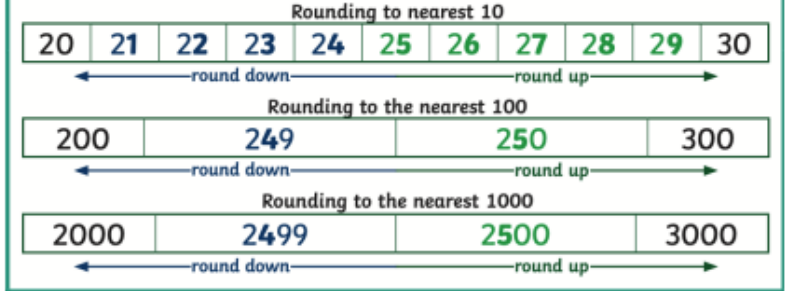


$$182 = 100 + 80 + 2$$

Year 4 Place Value

Rounding numbers

Look at the place value column to the right of the value you are rounding to. If this digit is a 4 or less, round down. If the digit is a 5 or more, round up.



The difference in value between the start and the end of the number line is 1,000

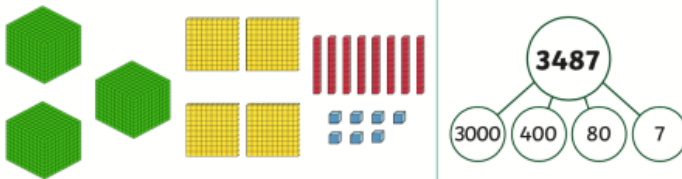
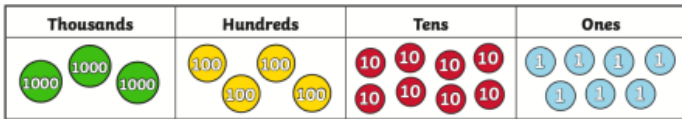
There are 10 intervals.

$$1,000 \div 10 = 100$$

3487

three thousand, four hundred and eighty-seven

1000s	100s	10s	1s



Roman numerals

one	1	I
five	5	V
ten	10	X
fifty	50	L
one hundred	100	C

XVIII = 18

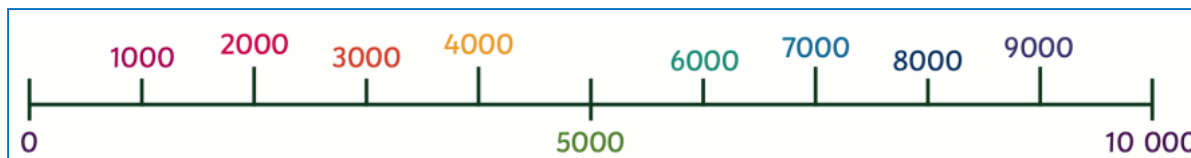
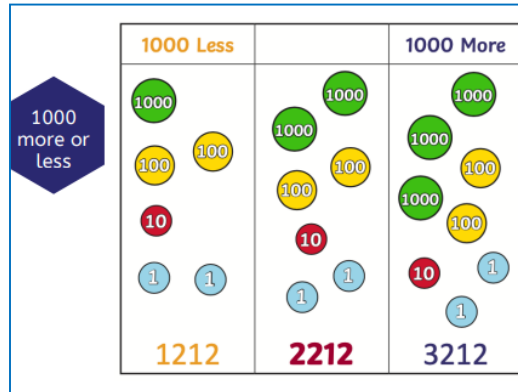
XXIX = 29

LXXXIV = 84



There are 10 hundreds.

10 hundreds = one thousand



Vocabulary

- represent
- place holder
- ones
- tens
- hundreds
- thousands
- difference
- Interval
- multiple
- partition
- more
- less
- exchange
- mid-point
- greater than
- less than
- equal to
- <
- >
- =

- compare
- order
- ascending
- descending
- roman numerals

Thousands	Hundreds	Tens	Ones

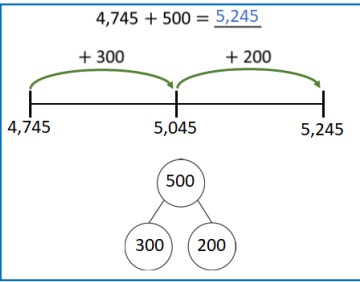
$$4,136 = 3,000 + 100 + 30 + 1,006$$

$$4,136 = 4,000 + 110 + 20 + 6$$

$$4,136 = 2,010 + 100 + 2,010 + 16$$



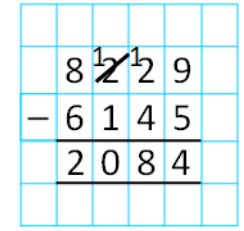
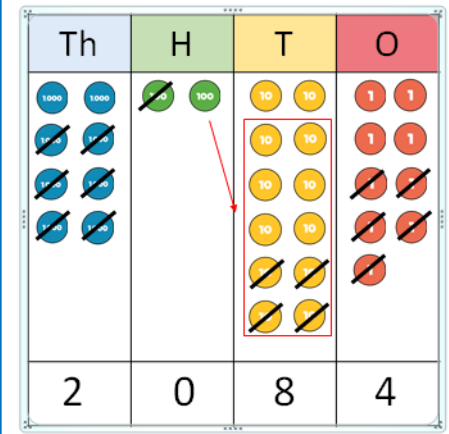
Add 4-digit numbers



Year 4 Addition and Subtraction

Subtract 4-digit numbers

$8,229 - 6,145 = 2,084$



Commutative

$420 + 372 + 280 =$

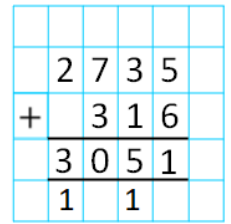
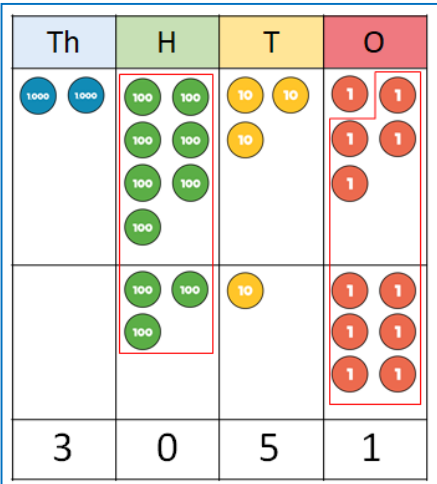
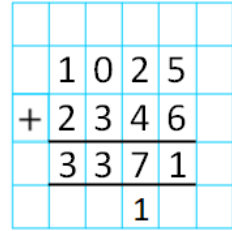
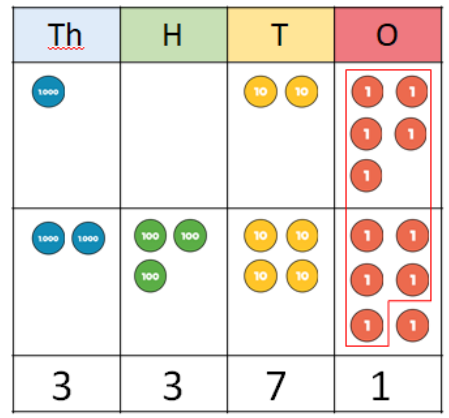
Change to

$420 + 280 + 372 =$

As $420 + 280 = 700$

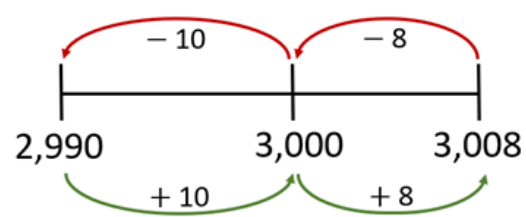
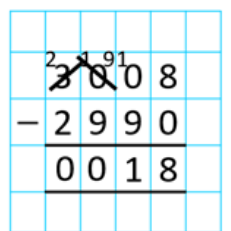
(because $42 + 28 = 70$)

$420 + 280 + 372 = 700 + 372 = 1072$



$3,008 - 2,990 = 18$

Use the most efficient method.



Rounding to estimate

$1635 + 386 = 2021$

Round to the nearest ten

$1640 + 390 = 2030$

Round to the nearest hundred

$1600 + 400 = 2000$

Both give a reasonable estimate, but rounding the nearest ten is more accurate.

$9362 - 5729 = 3622$

Round to the nearest hundred

$9400 - 5700 = 3700$

Round to the nearest thousand

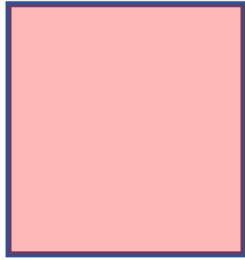
$9000 - 6000 = 3000$

Rounding to the nearest hundred is much more accurate in this case.

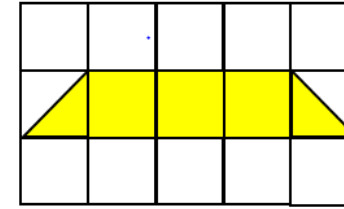
Vocabulary
 Add addition
 plus altogether
 subtract minus
 difference
 partition
 multiple
 formal written method
 represent
 column
 exchange
 ones tens
 hundreds
 thousand
 efficient
 inverse



Year 4 Measurement - Area



Area is the amount of space taken up by a 2-D shape.



There are 3 squares and 2 half squares inside the shape.

The area of the shape is 4 squares.

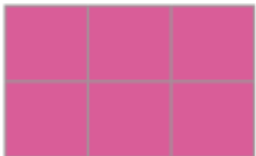
Vocabulary

- Measure area
- greatest
- smallest
- surface
- rectilinear
- straight side
- right angle
- < > =
- greater than
- less than
- equal to
- difference
- order

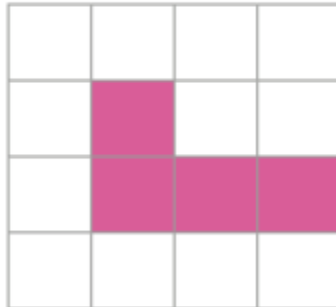
We can count *squares* to find the *area* of a *rectilinear* shape.



Area = 1 square

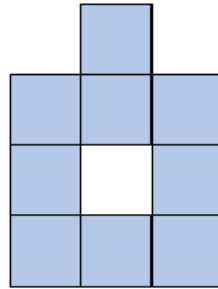


Area = 6 squares

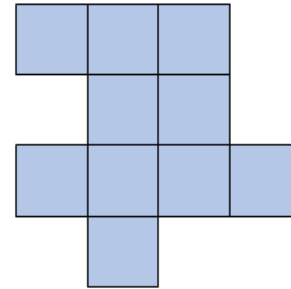


Area = 4 squares

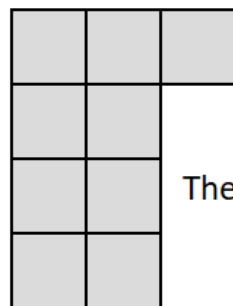
Which shape has the larger area?



9 squares



10 squares



The area is 9 squares.

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15

There are 3 rows altogether.

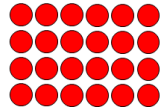
There are 5 squares in a row.

3 rows of 5 squares = 15 squares

The area of the shape is 15 squares.



Complete the fact family to match the array.



4 × 6 = 24

6 × 4 = 24

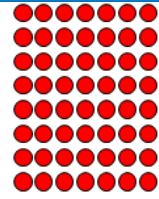
24 ÷ 4 = 6

24 ÷ 6 = 4

Year 4 Multiplication and Division A

56 ÷ 7 = 8

8 × 7 = 56



There are 4 plates.

0 × 4 = 0

Each plate has 0 doughnuts on it.

4 × 0 = 0

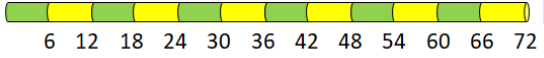
There are 0 doughnuts altogether.

Multiples of 3

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

Multiples of 6

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



$8 \div 1 = 8$

Sharing

Grouping

There is 1 8 in 8
There are 8 1s in 8

There is 1 group of 2 in 2 $2 \div 2 = 1$

There is 1 group of 3 in 3 $3 \div 3 = 1$

There is 1 group of 4 in 4 $4 \div 4 = 1$

When you divide a number by itself, the answer is 1

commutivity

$5 \times 4 = 20$

$4 \times 5 = 20$

Vocabulary

Multiply
multiplication
divide
multiple
equal groups
commutative
fact family
altogether
lots of
partition
zero

3 times table

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

6 times table

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

9 times table

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

7 times table

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

11 times table

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

12 times table

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