

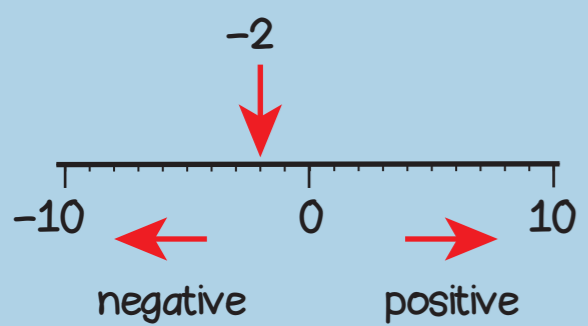
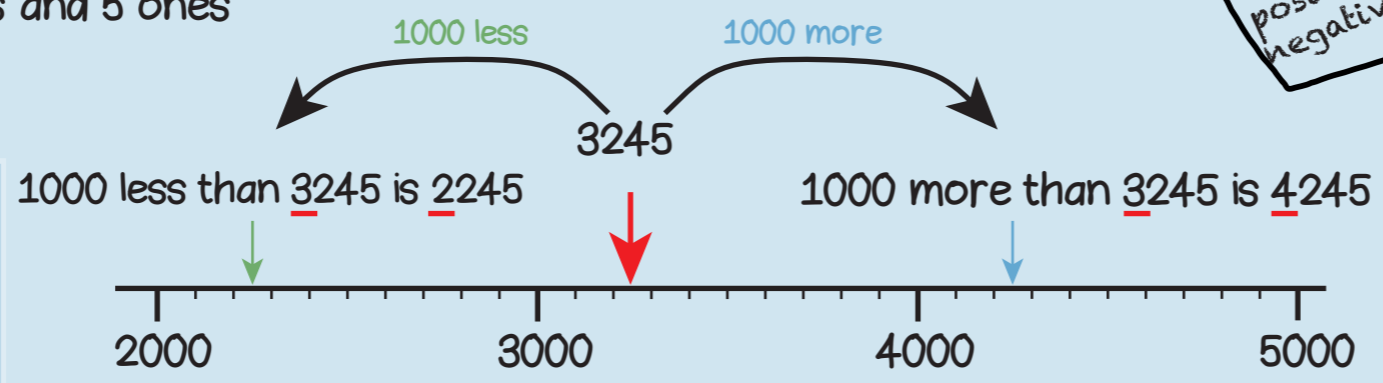
three thousand, two hundred and forty-five  
3 thousands, 2 hundreds, 4 tens and 5 ones

In order from smallest to largest

2987, 5894, 6080  
4261, 4406, 4540

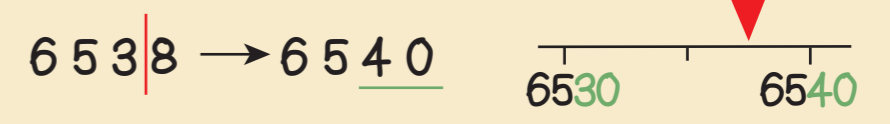
Stop and look.  
What do you notice?

thousands  
digit  
round  
multiple  
positive  
negative

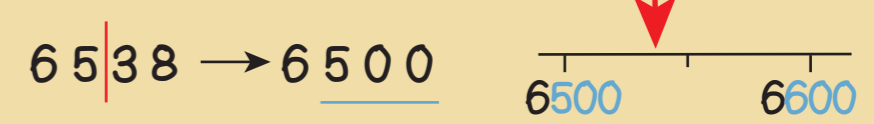


5 or more - round up  
4 or less - round down

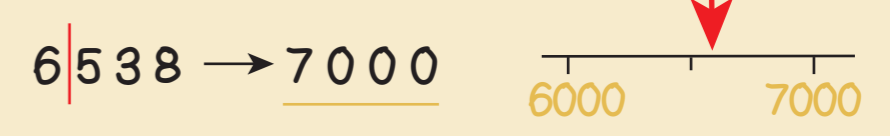
Round to the nearest ten



Round to the nearest hundred



Round to the nearest thousand



# Year 4 Term 1

**Equilateral Triangles**  
3 equal sides

**Isosceles Triangles**  
2 equal sides

**Scalene Triangles**  
all sides different

trapezium  
parallelogram  
rhombus  
kite  
adjacent  
equilateral  
scalene  
isosceles

**Quadrilaterals are shapes with 4 straight sides**

parallelogram - opposite sides parallel

rectangles - 4 right angles

rhombus - 4 equal sides

squares

**Trapezium** - exactly one pair of parallel sides

**Kites** - 2 pairs of equal adjacent sides

You CanDo all the multiplication facts of 6.

|    |   |   |   |    |   |   |   |    |
|----|---|---|---|----|---|---|---|----|
| 0  | x | 6 | = | 0  | = | 6 | x | 0  |
| 1  | x | 6 | = | 6  | = | 6 | x | 1  |
| 2  | x | 6 | = | 12 | = | 6 | x | 2  |
| 3  | x | 6 | = | 18 | = | 6 | x | 3  |
| 4  | x | 6 | = | 24 | = | 6 | x | 4  |
| 5  | x | 6 | = | 30 | = | 6 | x | 5  |
| 6  | x | 6 | = | 36 | = | 6 | x | 6  |
| 7  | x | 6 | = | 42 | = | 6 | x | 7  |
| 8  | x | 6 | = | 48 | = | 6 | x | 8  |
| 9  | x | 6 | = | 54 | = | 6 | x | 9  |
| 10 | x | 6 | = | 60 | = | 6 | x | 10 |
| 11 | x | 6 | = | 66 | = | 6 | x | 11 |
| 12 | x | 6 | = | 72 | = | 6 | x | 12 |

Can Do Tables

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If I know... then I also know...

The digit sum of multiples of 6 is 3, 6 or 9

All multiples of 6 are even numbers.

You CanDo all the multiplication facts of 9.

|    |   |   |   |     |   |   |   |    |
|----|---|---|---|-----|---|---|---|----|
| 0  | x | 9 | = | 0   | = | 9 | x | 0  |
| 1  | x | 9 | = | 9   | = | 9 | x | 1  |
| 2  | x | 9 | = | 18  | = | 9 | x | 2  |
| 3  | x | 9 | = | 27  | = | 9 | x | 3  |
| 4  | x | 9 | = | 36  | = | 9 | x | 4  |
| 5  | x | 9 | = | 45  | = | 9 | x | 5  |
| 6  | x | 9 | = | 54  | = | 9 | x | 6  |
| 7  | x | 9 | = | 63  | = | 9 | x | 7  |
| 8  | x | 9 | = | 72  | = | 9 | x | 8  |
| 9  | x | 9 | = | 81  | = | 9 | x | 9  |
| 10 | x | 9 | = | 90  | = | 9 | x | 10 |
| 11 | x | 9 | = | 99  | = | 9 | x | 11 |
| 12 | x | 9 | = | 108 | = | 9 | x | 12 |

Can Do Tables

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multiple factor product

The digit sum of multiples of 9 is 9

An odd number multiplied by 9 gives an odd product.

You CanDo all the multiplication facts of 7.

|    |   |   |   |    |   |   |   |    |
|----|---|---|---|----|---|---|---|----|
| 0  | x | 7 | = | 0  | = | 7 | x | 0  |
| 1  | x | 7 | = | 7  | = | 7 | x | 1  |
| 2  | x | 7 | = | 14 | = | 7 | x | 2  |
| 3  | x | 7 | = | 21 | = | 7 | x | 3  |
| 4  | x | 7 | = | 28 | = | 7 | x | 4  |
| 5  | x | 7 | = | 35 | = | 7 | x | 5  |
| 6  | x | 7 | = | 42 | = | 7 | x | 6  |
| 7  | x | 7 | = | 49 | = | 7 | x | 7  |
| 8  | x | 7 | = | 56 | = | 7 | x | 8  |
| 9  | x | 7 | = | 63 | = | 7 | x | 9  |
| 10 | x | 7 | = | 70 | = | 7 | x | 10 |
| 11 | x | 7 | = | 77 | = | 7 | x | 11 |
| 12 | x | 7 | = | 84 | = | 7 | x | 12 |

Can Do Tables

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An odd number multiplied by 7 gives an odd product.

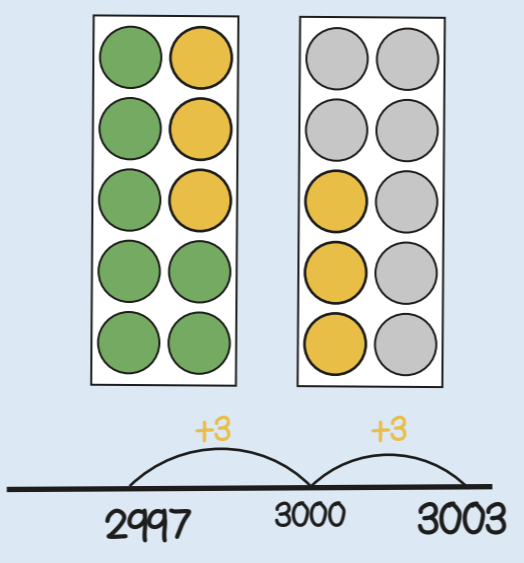
An even number multiplied by 7 gives an even product.

$64 \times 0 = 0$   
The product of a number and zero is zero.

$64 \times 1 = 64$   
The product of a number and 1 is the number itself.

$64 \div 1 = 64$   
The quotient when dividing a number by 1 is the number itself.

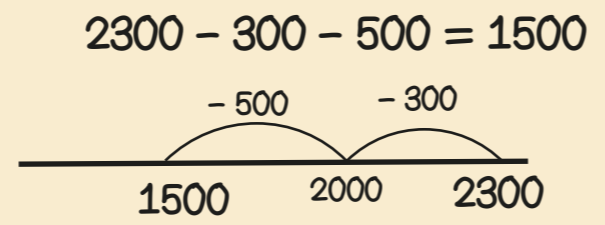
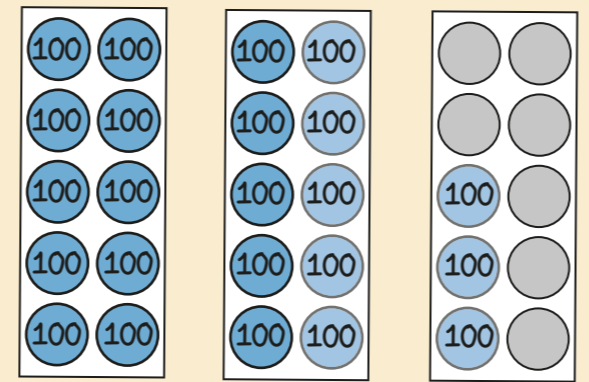
$2997 + 6$   
Bridging boundaries



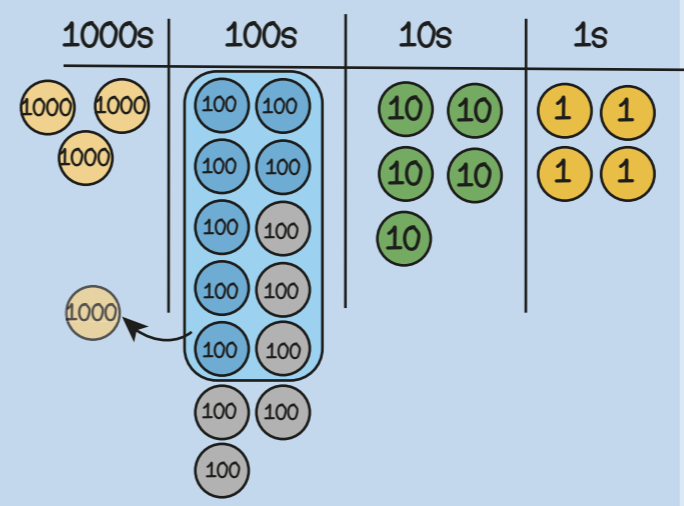
If I know  $7 + 6 = 13$  then...

Year 4 Term 2

$2300 - 800$   
Bridging boundaries by counting back in efficient steps



$3754 + 600$   
Add multiples of ten and a hundred

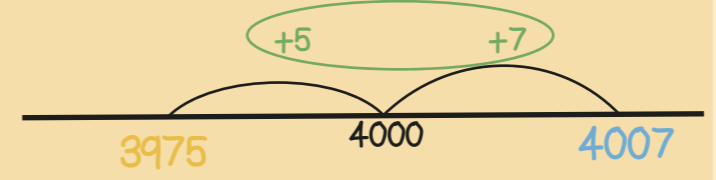


total difference  
ones  
tens  
hundreds  
thousands

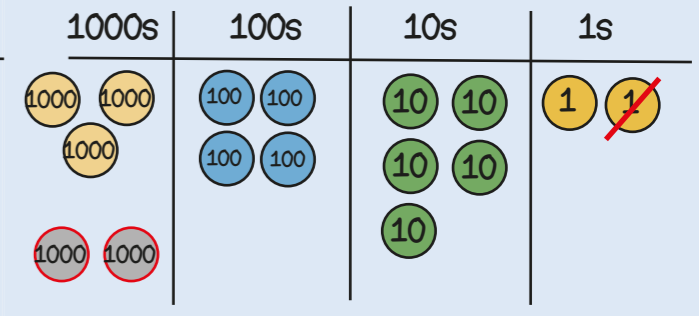
$3995 - 4007$   
Find the difference between two numbers



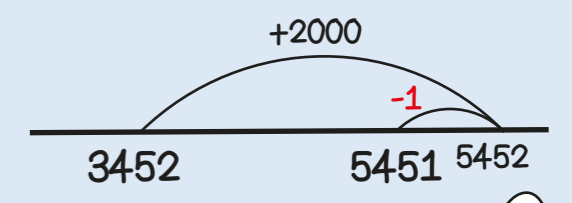
Count on 5 from 3995 to 4000, then 7 more so the difference between them is  $5 + 7 = 12$



$3452 + 1999$   
Round then adjust

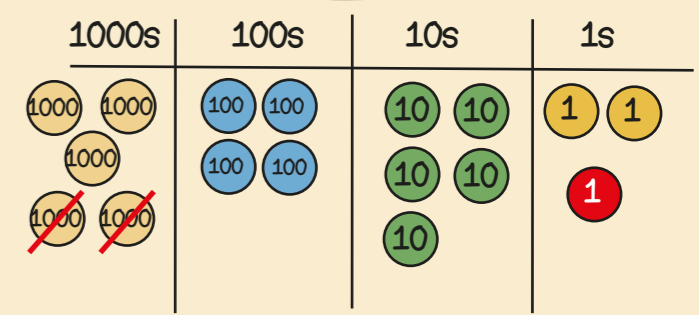


Add 2000 then subtract 1

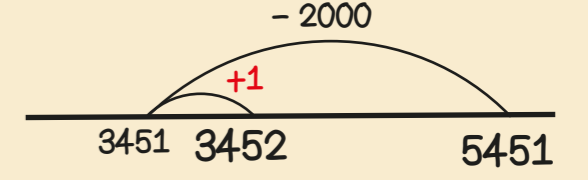


Stop and Look!  
What do you notice?  
What's the most efficient way?

$5451 - 1999$   
Round then adjust



Take away 2000 then add 1



You Can Do all the multiplication facts of 11.

0 x 11 = 0 = 11 x 0  
 1 x 11 = 11 = 11 x 1  
 2 x 11 = 22 = 11 x 2  
 3 x 11 = 33 = 11 x 3  
 4 x 11 = 44 = 11 x 4  
 5 x 11 = 55 = 11 x 5  
 6 x 11 = 66 = 11 x 6  
 7 x 11 = 77 = 11 x 7  
 8 x 11 = 88 = 11 x 8  
 9 x 11 = 99 = 11 x 9  
 10 x 11 = 110 = 11 x 10  
 11 x 11 = 121 = 11 x 11  
 12 x 11 = 132 = 11 x 12

Can Do Tables  
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If I know... then I also know...

If the digits are the same then a 2-digit number is divisible by 11

An odd number multiplied by 11 gives an odd product.

You Can Do all the multiplication facts of 12.

0 x 12 = 0 = 12 x 0  
 1 x 12 = 12 = 12 x 1  
 2 x 12 = 24 = 12 x 2  
 3 x 12 = 36 = 12 x 3  
 4 x 12 = 48 = 12 x 4  
 5 x 12 = 60 = 12 x 5  
 6 x 12 = 72 = 12 x 6  
 7 x 12 = 84 = 12 x 7  
 8 x 12 = 96 = 12 x 8  
 9 x 12 = 108 = 12 x 9  
 10 x 12 = 120 = 12 x 10  
 11 x 12 = 132 = 12 x 11  
 12 x 12 = 144 = 12 x 12

Can Do Tables  
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multiple factor product

A number is divisible by 12 if it is divisible by 3 and 4

All multiples of 12 are even numbers.

12 6 72

12 x 6 = 72  
 72 = 12 x 6  
 72 ÷ 12 = 6  
 6 = 72 ÷ 12

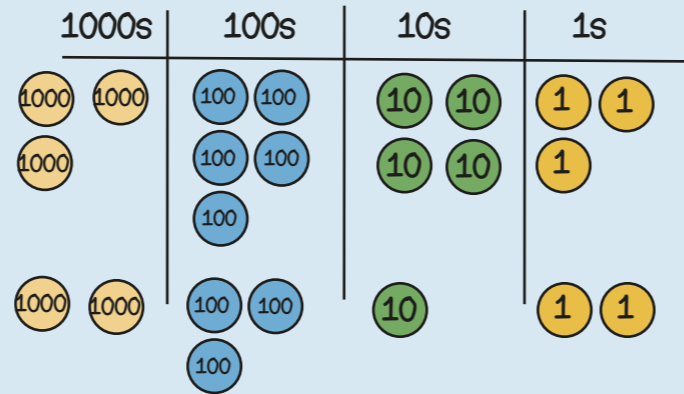
6 x 12 = 72  
 72 = 6 x 12  
 72 ÷ 6 = 12  
 12 = 72 ÷ 6

If I know... then I also know...

5 x 2 x 6 = 60 = 6 x 2 x 5

5 x 2 x 6 = 10 x 6 = 60  
 5 x 2 x 6 = 5 x 12 = 60  
 5 x 2 x 6 = 2 x 30 = 60

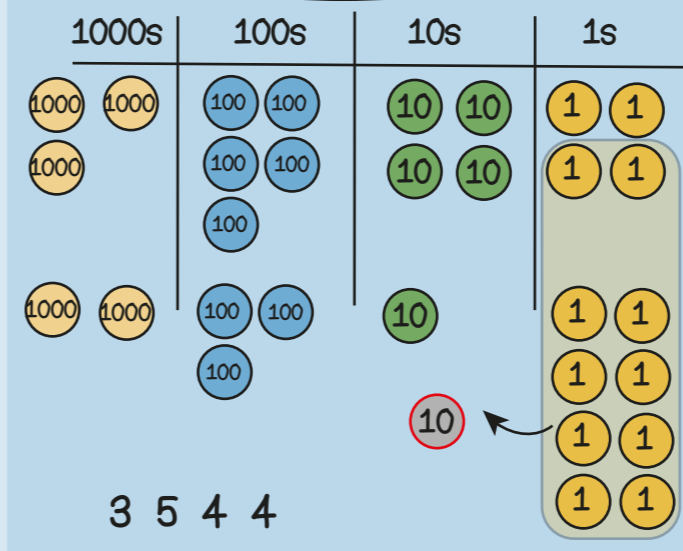
3543 + 2312  
No regrouping



$$\begin{array}{r} 3543 \\ + 2312 \\ \hline 5855 \end{array}$$

3 + 2 = 5  
 4 + 1 = 5  
 5 + 3 = 8  
 3 + 2 = 5

3544 + 2318  
Regrouping the ones

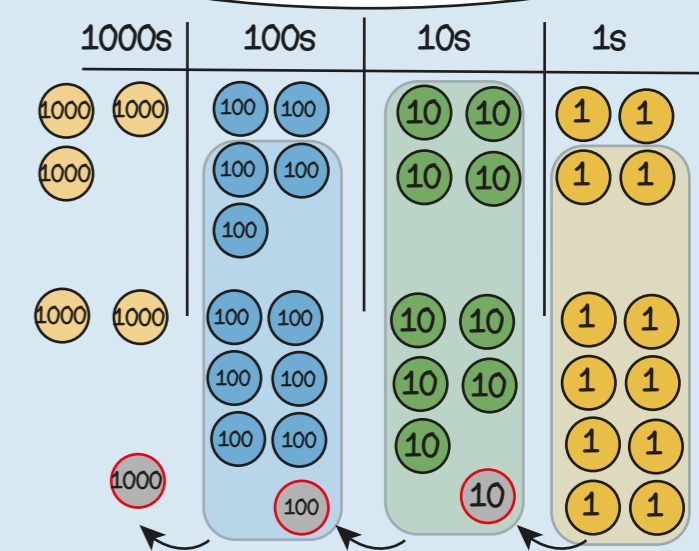


$$\begin{array}{r} 3544 \\ + 2318 \\ \hline 5862 \end{array}$$

Regroup the 12 ones into 1 ten and 2 ones

regroup exchange ones tens hundreds thousands

3544 + 2658  
Regrouping in multiple columns

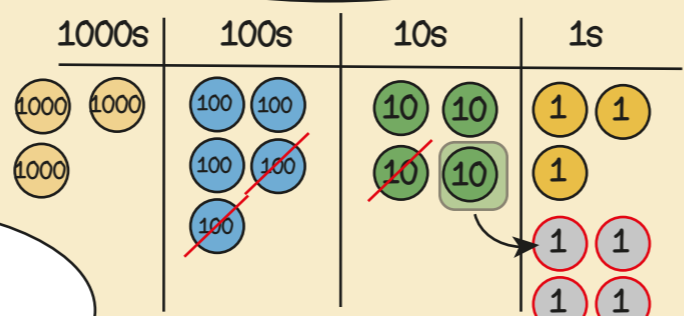


$$\begin{array}{r} 3544 \\ + 2658 \\ \hline 6202 \end{array}$$

If the column sum is equal to ten or more, we must regroup.

Year 4 Term 3

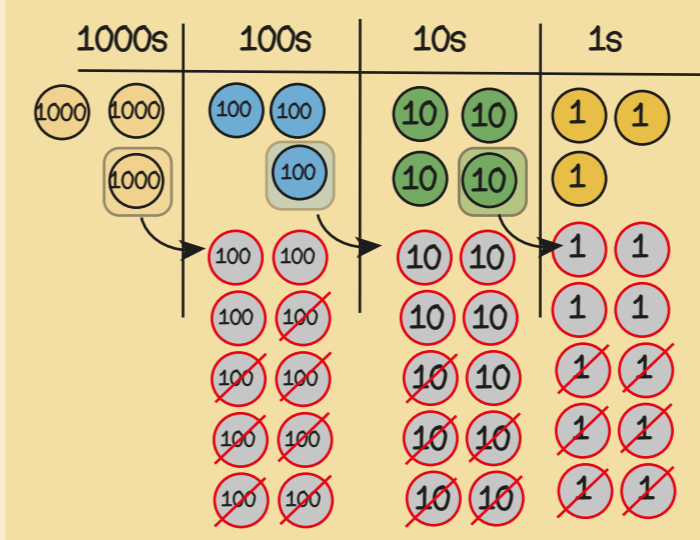
3543 - 1216  
Exchanging tens



$$\begin{array}{r} 3543 \\ - 1216 \\ \hline 2327 \end{array}$$

If the ones digit in the minuend is less than the ones digit in the subtrahend, I need to exchange 1 ten for 10 ones.

3343 - 1756  
Exchanging in multiple columns



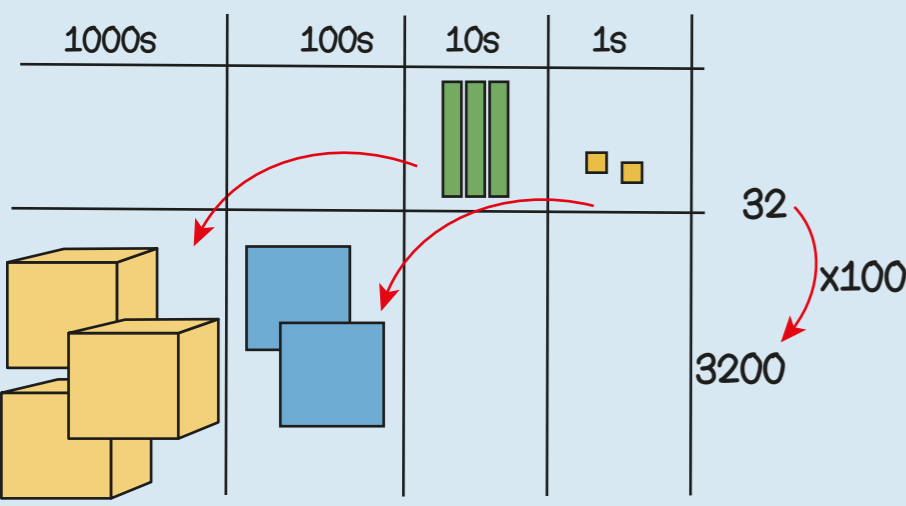
$$\begin{array}{r} 3343 \\ - 1756 \\ \hline 1587 \end{array}$$

Stop and Look! What do you notice? Where will we regroup or exchange?

3543 - 835  
Different numbers of digits

$$\begin{array}{r} 3543 \\ - 835 \\ \hline 2708 \end{array}$$

Line up the ones with the ones, the tens with the tens.



3000 is one hundred times greater than 30  
2 multiplied by one hundred is 200

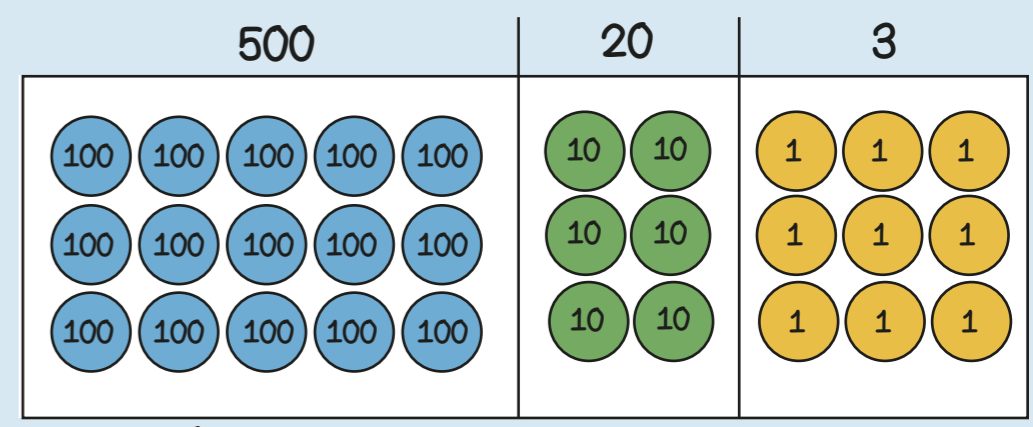
70 x 6 = ?  
If I know 7 x 6 = 42  
then I know 70 x 6 = 420  
because it is ten times greater

7 x 6 = 42



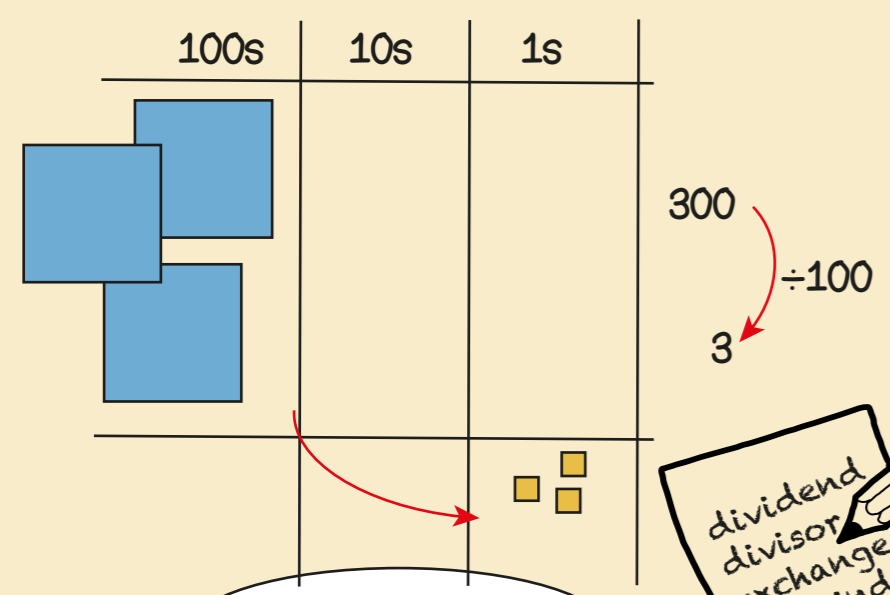
7 x 10 x 6  
= 42 x 10  
= 420

70 x 6 = 420  
7 x 60 = 420



multiplier  
product  
regroup

$$\begin{array}{r} 523 \\ \times 3 \\ \hline 1569 \end{array}$$

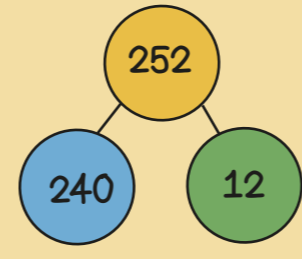
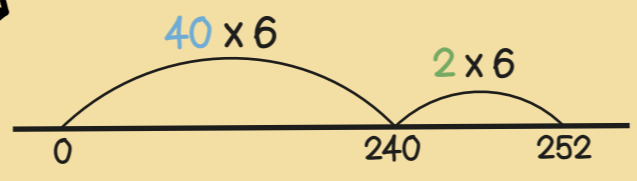


3 is one hundred times smaller than 300

dividend  
divisor  
exchange  
remainder  
quotient

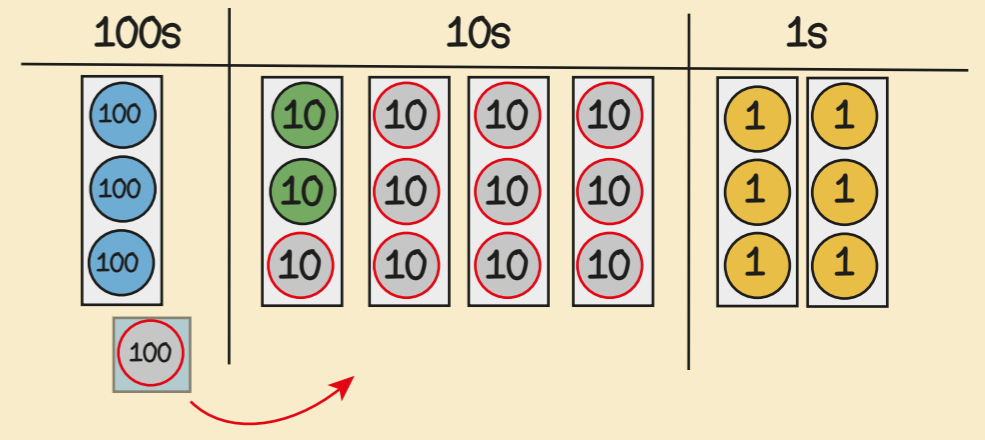
If I know 24 ÷ 6 = 4  
then I also know  
240 ÷ 6 = 40

252 ÷ 6  
= 240 ÷ 6 + 12 ÷ 6  
= 40 + 2  
= 42



426 ÷ 3

$$\begin{array}{r} 142 \\ 3 \overline{) 426} \\ \underline{3} \phantom{0} \\ 12 \phantom{0} \\ \underline{12} \phantom{0} \\ 6 \\ \underline{6} \\ 0 \end{array}$$



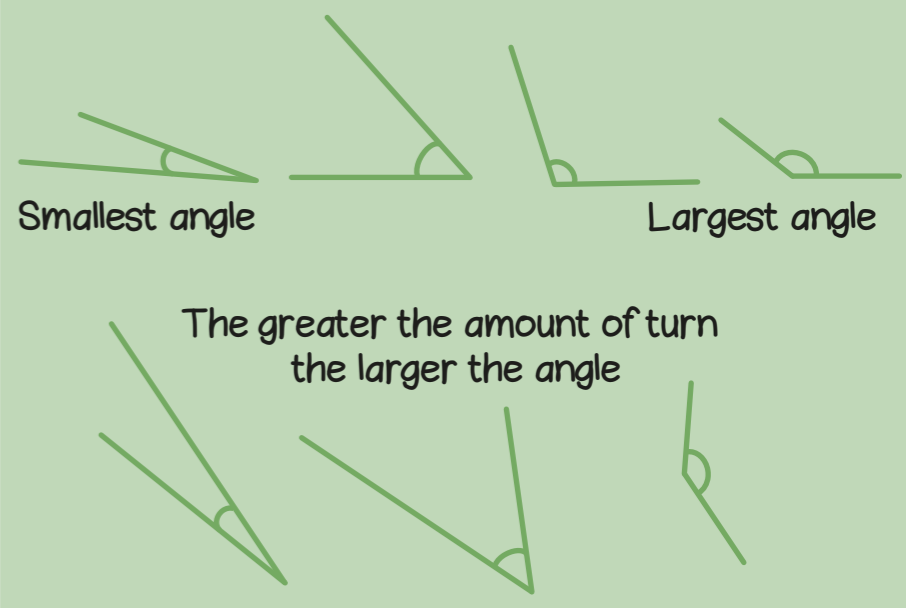
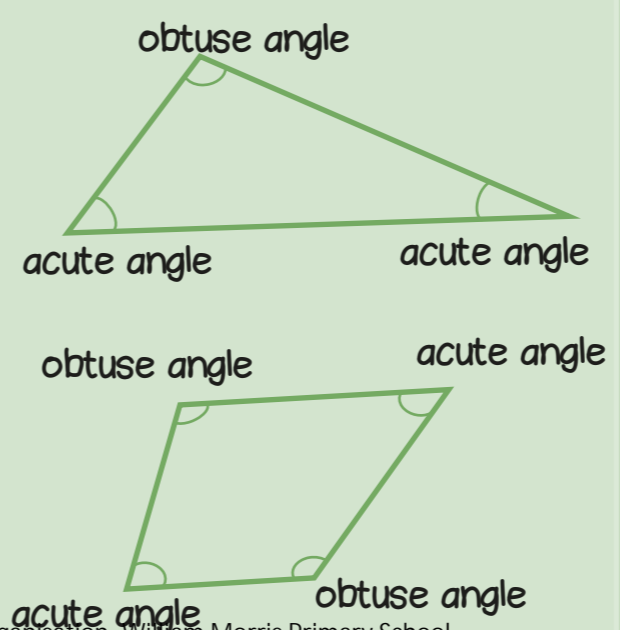
# Year 4 Term 4

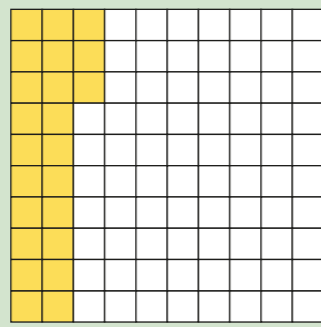
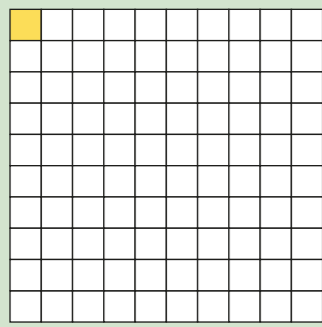
An acute angle is smaller than a right angle

An obtuse angle is greater than a right angle

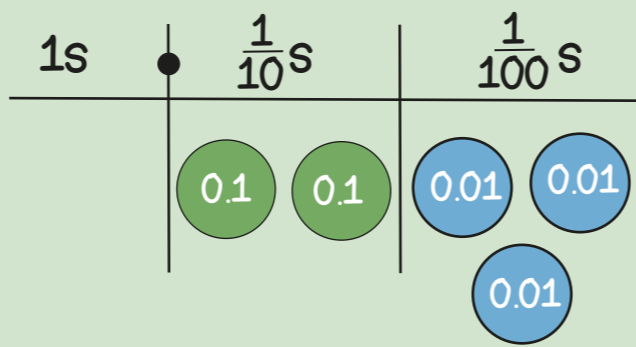


angle  
acute  
obtuse  
right angle



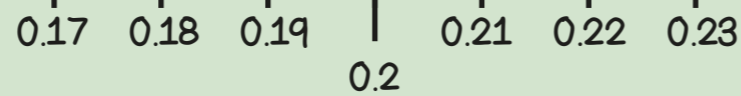


$$\frac{23}{100} = 0.23$$

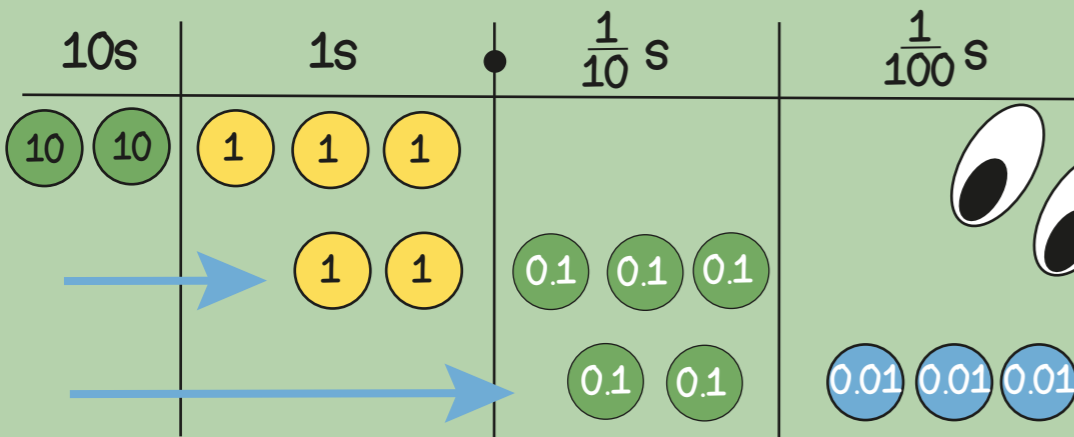


one hundredth  
one out of 100 equal parts  
one divided by one hundred

$$\frac{1}{100} = 0.01$$

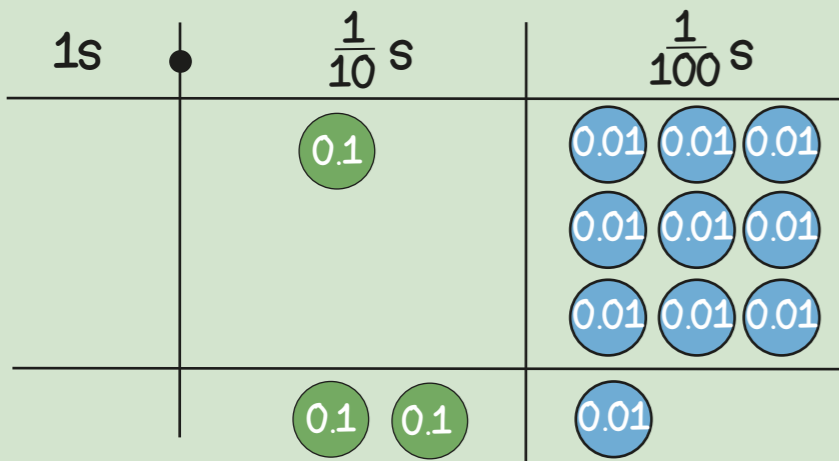


## Year 4 Term 5

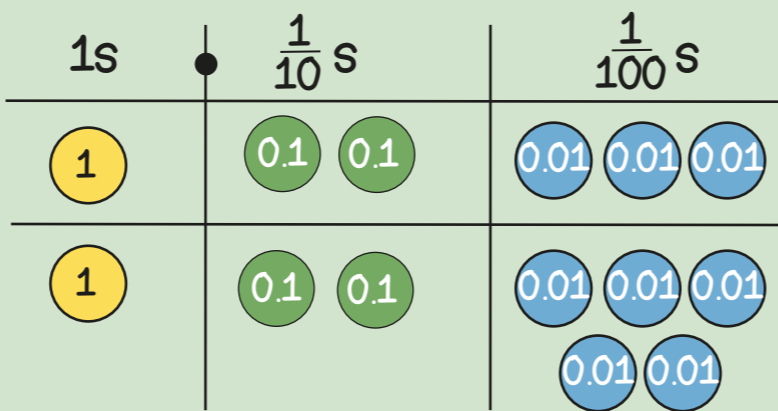


$23 \div 10 = 2.3$   
move digits 1 place right

$23 \div 100 = 0.23$   
move digits 2 places right

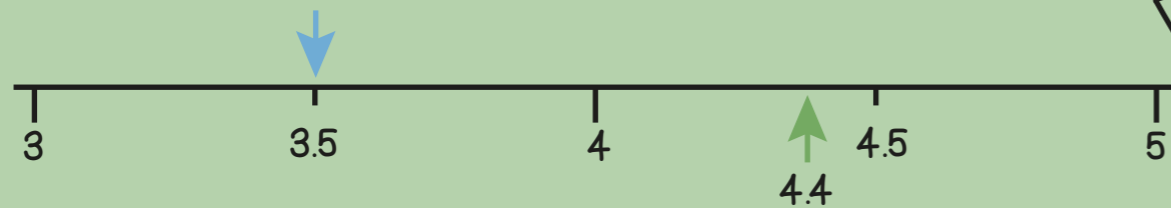


$$0.21 > 0.19$$

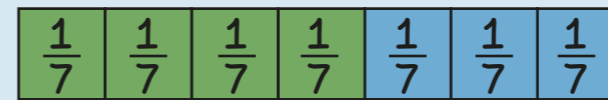


$$1.23 < 1.25$$

3.5 rounded to the nearest whole number is 4

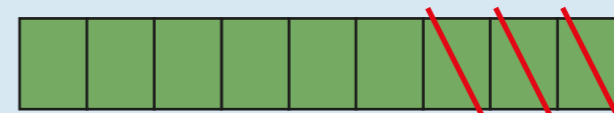


4.4 rounded to the nearest whole number is 4



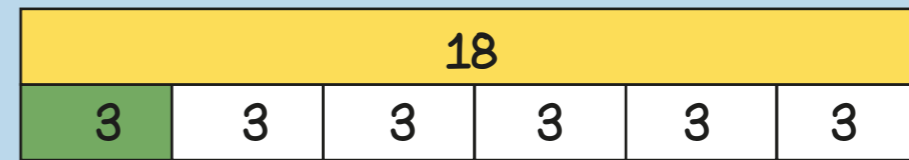
$$\frac{4}{7} + \frac{5}{7} = \frac{9}{7}$$

When adding fractions with the same denominators the denominator stays the same, just add the numerators.

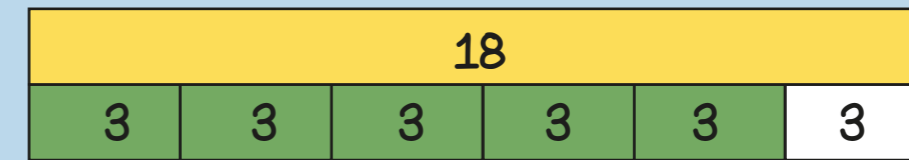


$$\frac{13}{9} - \frac{7}{9} = \frac{6}{9}$$

When subtracting fractions with the same denominators the denominator stays the same, just subtract the numerators.

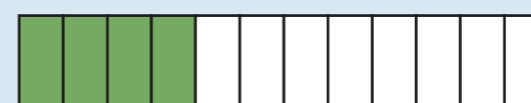
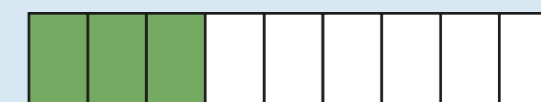
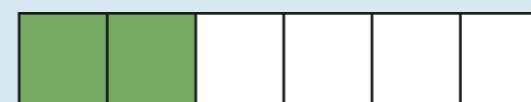


$$\frac{1}{6} \text{ of } 18 = 3$$



$$5 \times 3 = 15$$

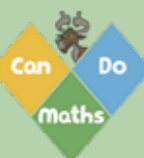
$$\frac{5}{6} \text{ of } 18 = 5 \times 3 = 15$$

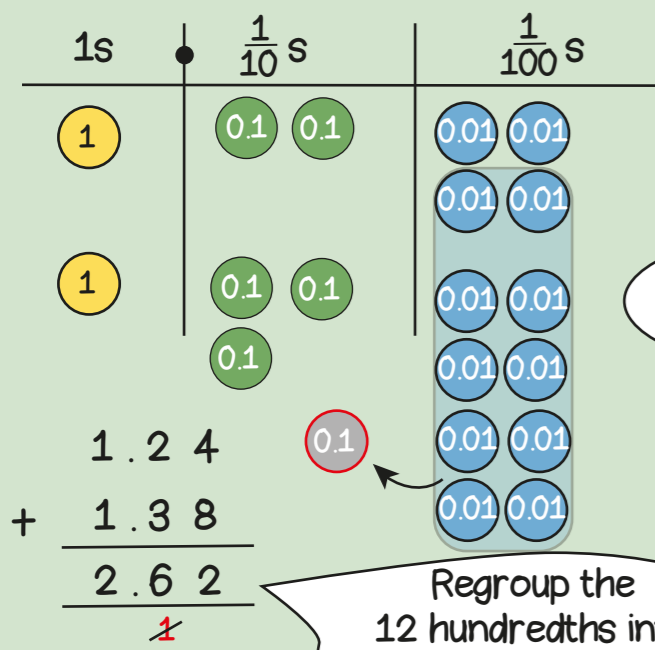


$$\frac{1}{3} = \frac{3}{9}$$

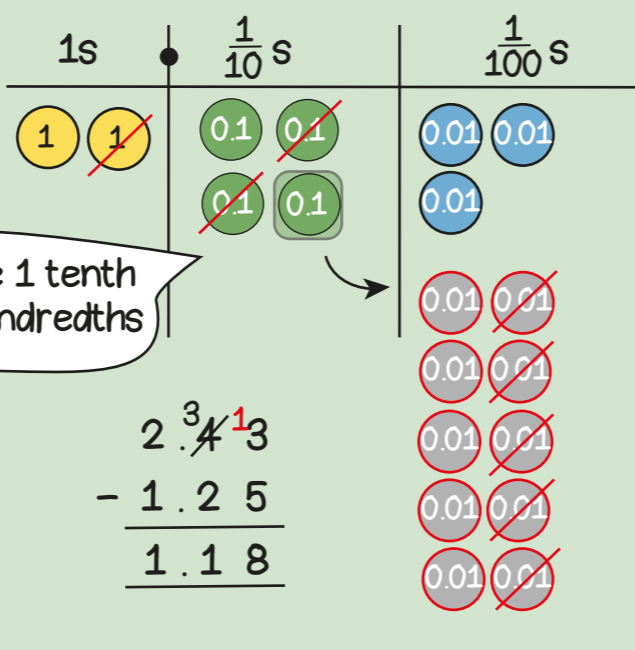
$$\frac{1}{3} = \frac{2}{6} = \frac{4}{12}$$

Use the same multiplier on the numerator and denominator.



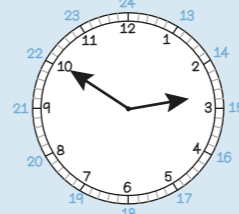


Exchange 1 tenth for 10 hundredths

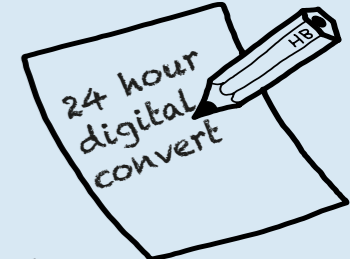


Regroup the 12 hundredths into 1 tenth and 2 hundredths

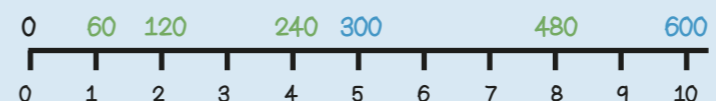
10 to 3 in the morning  
2:50 a.m.  
02:50



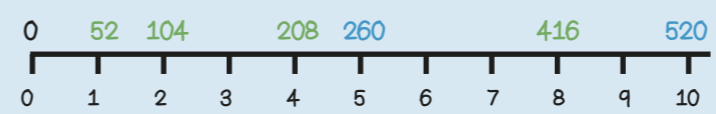
10 to 3 in the afternoon  
2:50 p.m.  
14:50



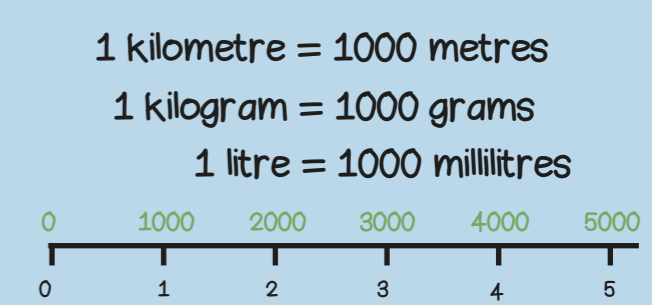
1 hour = 60 minutes  
so 4 hours = 240 minutes



1 year = 52 weeks  
so 5 years = 260 weeks



1 week = 7 days  
so 4 weeks = 4 x 7 = 28 days



0.54 + 0.32 = ?

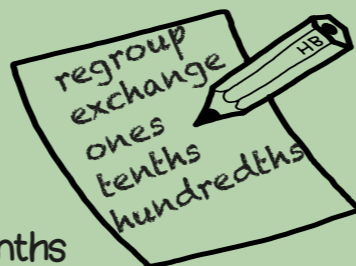
If I know 54 + 32 = 86  
then I know  
54 hundredths + 32 hundredths  
= 86 hundredths  
so ...  
0.54 + 0.32 = 0.86



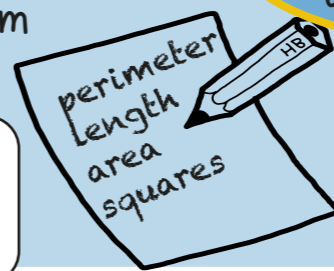
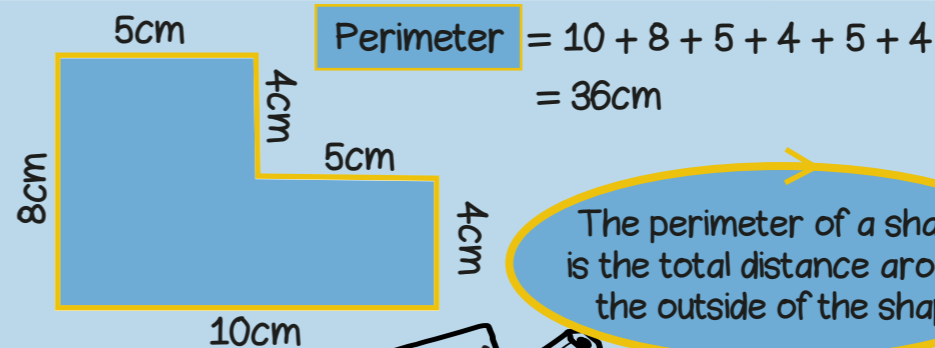
I can calculate these mentally!

0.9 - 0.4 = ?

If I know 9 - 4 = 5  
then I know  
9 tenths - 4 tenths = 5 tenths  
so ...  
0.9 - 0.4 = 0.5



# Year 4 Term 6



The perimeter of a shape is the total distance around the outside of the shape

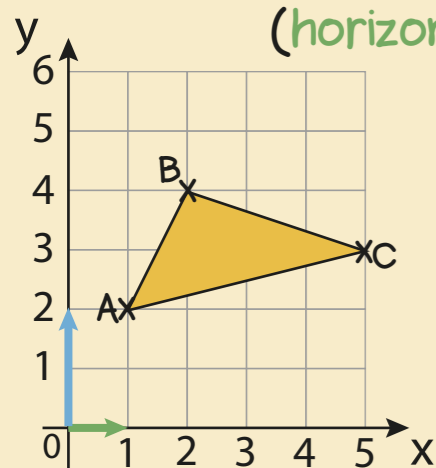
|    |    |    |    |    |
|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  |
| 6  | 7  | 8  | 9  | 10 |
| 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 |

Area = 20 squares

The area of a shape is the amount of space inside a shape.

## Coordinates

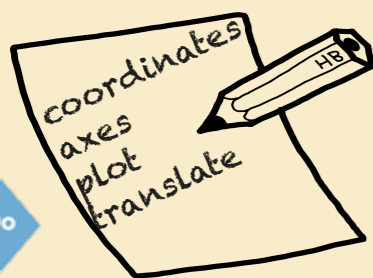
(horizontal, vertical)



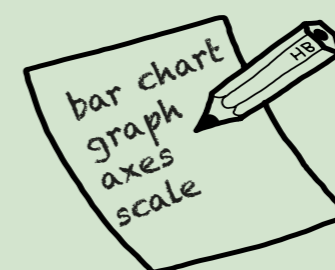
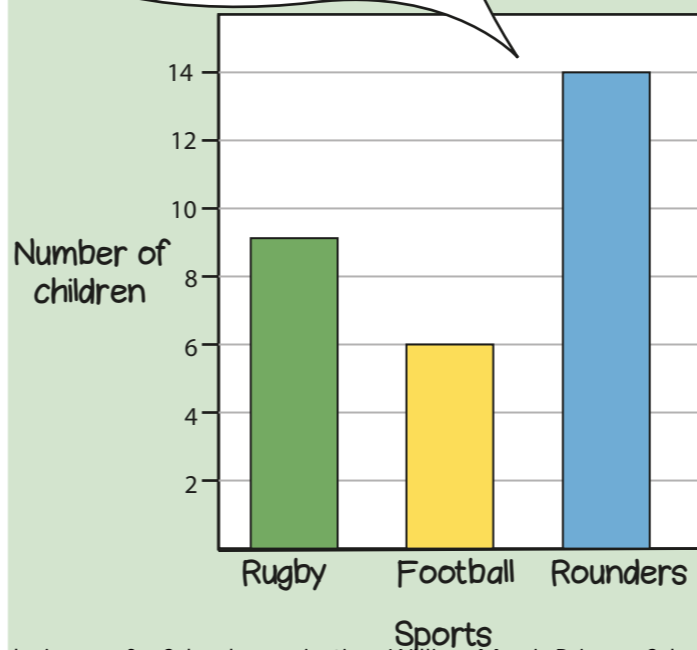
The coordinates of the points are:

- A = (1, 2)
- B = (2, 4)
- C = (5, 3)

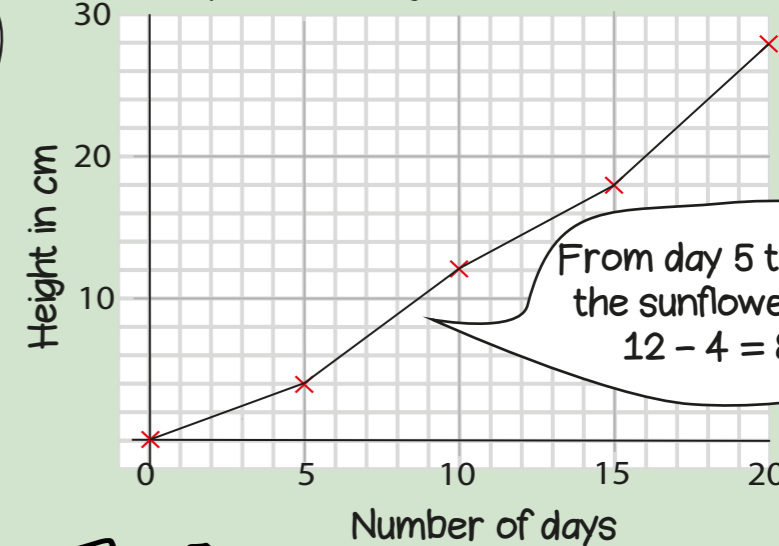
Translate the triangle  
2 squares up and  
3 squares right



14 - 9 = 5  
so 5 more children like rounders than rugby



## Graph to show growth of a sunflower



From day 5 to day 10  
the sunflower grows  
12 - 4 = 8 cm

