Level 3 PROMPT sheet

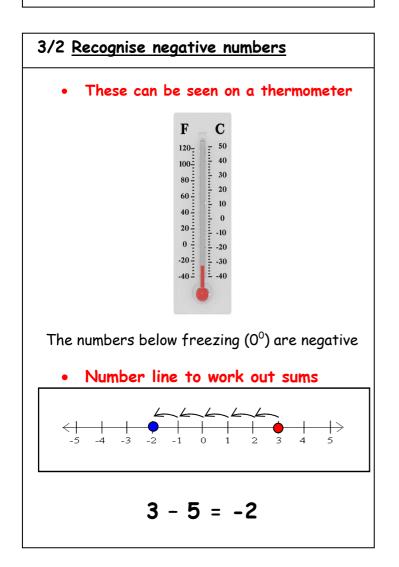
3/1 <u>Place value</u>

The position of the digit gives its size

thousands	hundreds	tens	units	•	tenths	hundredths
4	3	5	2	•	6	1

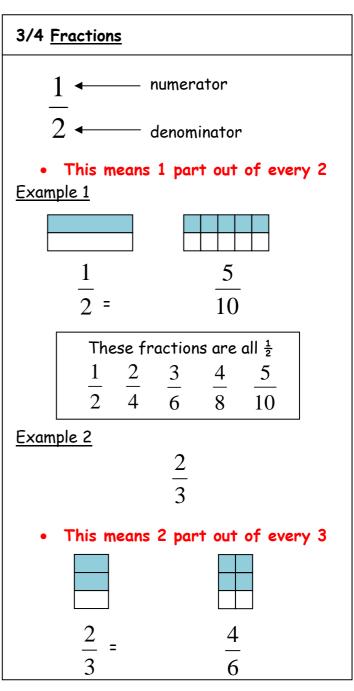
<u>Example</u>

The value of the digit '4' is 4000 The value of the digit '3' is 300



3/3 <u>Multiples</u>

• Multiples are the number sequences that make up the tables Example The multiples of 2 are: 2 4 6 8 10 ••• The multiples of 5 are: 15 5 10 20 25 ... The multiples of 10 are: 10 20 30 40 50 •••



3/5 <u>Decimals</u>

• Decimals and money

£3.00 means 300p £3.50 means 350p £3.05 means 305p

Remember

A calculator does not know if the numbers you put in are money so ± 3.50 will look like 3.5

• Ordering Decimals

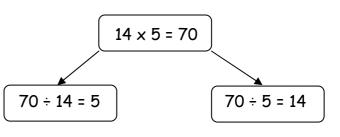
1.23 m ↓ 1.23 m	↓	1.65 m ↓ 1.65 m	Ļ
Make the		[:] digits the order them	same, it is easier to
Smallest 1.23 m	1.30 m	1.60 m	Largest 1.65 m

3/6 Know the 3, 4 and 6 times tables

2 2 3 2 4 2 5 2 6 2 7 2 8 2	x x x x x x x	3 3 3 3 3 3 3 3		3 6 9 12 15			1 2 3	x x x	4	=	4 8
3 2 4 2 5 2 6 2 7 2 8 2	x x x x x	3 3 3 3	= = =	9 12			2			=	8
4 2 5 2 6 2 7 2 8 2	x x x x	3 3 3	= =	12				x			
5 2 6 2 7 2 8 2	x x x	3 3	=					~	4	=	12
6 2 7 2 8 2	x x	3		15			4	х	4	=	16
7 x 8 x	х		=				5	х	4	=	20
8		3		18			6	х	4	=	24
			=	21			7	х	4	=	28
9,	х	3	=	24			8	х	4	=	32
5	х	3	=	27			9	х	4	=	36
10	х	3	=	30			10	х	4	=	40
			_						_		
				1	х	6	=	6			
				2	х	6	=	12			
				3	х	6	=	18			
				4	х	6	=	24			
				5	х	6	=	30			
				6	х	6	=	36			
				7	х	6	=	42			
				8	х	6	=	48			
				9	х	6	=	54			
				10	х	6	=	60			

3/7 Division facts from a multiplication

Any multiplication sum can be written as 2 division sums

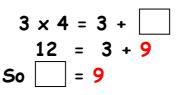


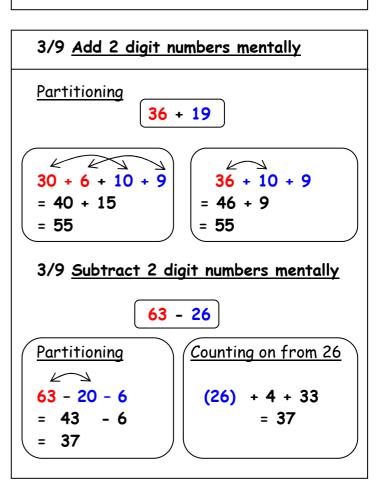
3/8 <u>Balancing a sum</u>

left hand side is equal to right hand side

$$3 \times 4 = 12$$

This can be used to find missing numbers





3/11 Solve problems

- When to multiply and when to divide
- When to round up and when to round down

Here is an example



There are 17 children in the playground. Each bench in the yard can seat 3 children. How many benches will be needed?

$17 \div 3 = 5 r 2$

- We need to divide to share the children around the benches
- We need to round up to 6 benches for the remaining 2

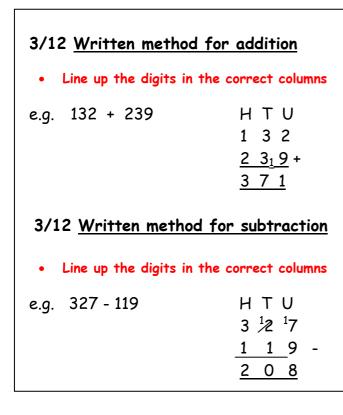
Here is another example

Dan made 47 cakes. He sells them in boxes of 6. How many full boxes will we have?



$46 \div 6 = 7 r 4$

- He needs to divide to share the cakes into boxes
- He needs to round down to 7 boxes because he needs to have 6 cakes in each box



3/13 Methods for multiplying 38 x 3 Column method 38 2 3 x 114 Grid method 30 90 90 + 24 = 114 Partitioning method 38 x 3 = 30 x3 + 8 x 3 = 90 + 24 = 114

To multiply by 10

Move all the digits along one place to the left. Remember to put a zero in the units.

Н	Т	U
	3	0
3	0	0

 $30 \times 10 = 300$

3/13 Methods for dividing



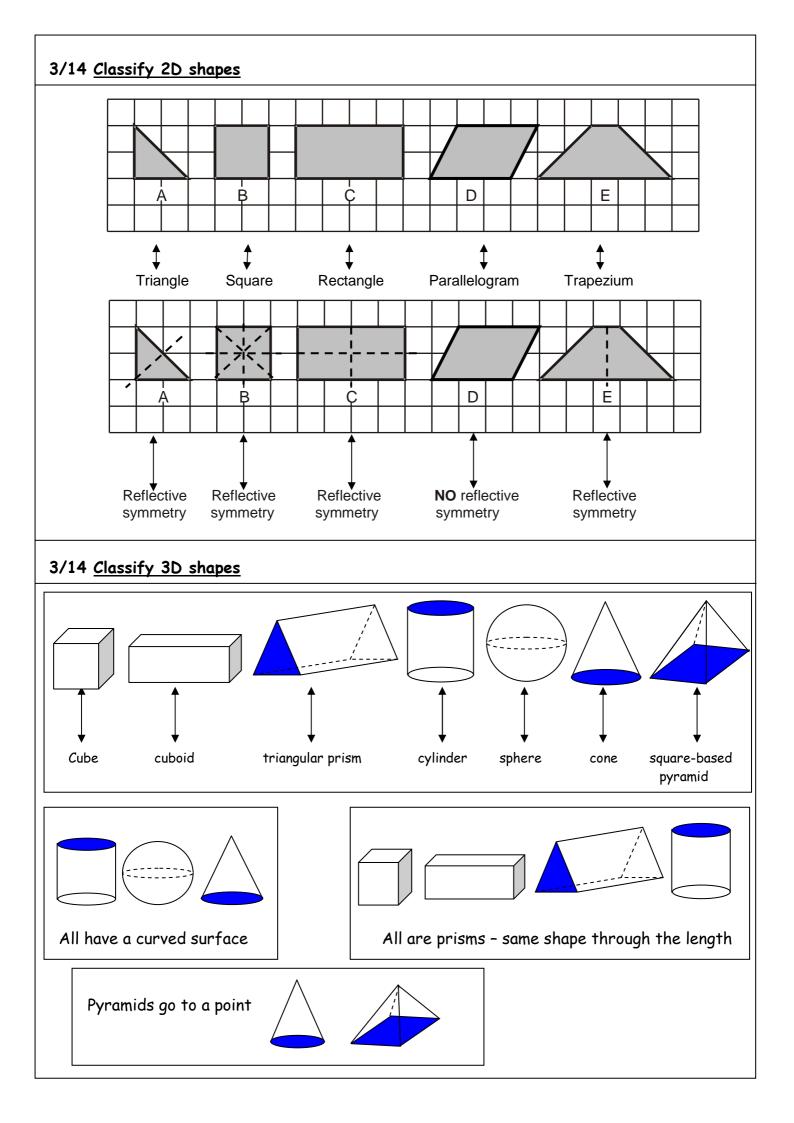
 $8 \times 3 = 24$ So $25 \div 3 = 8 r 1$

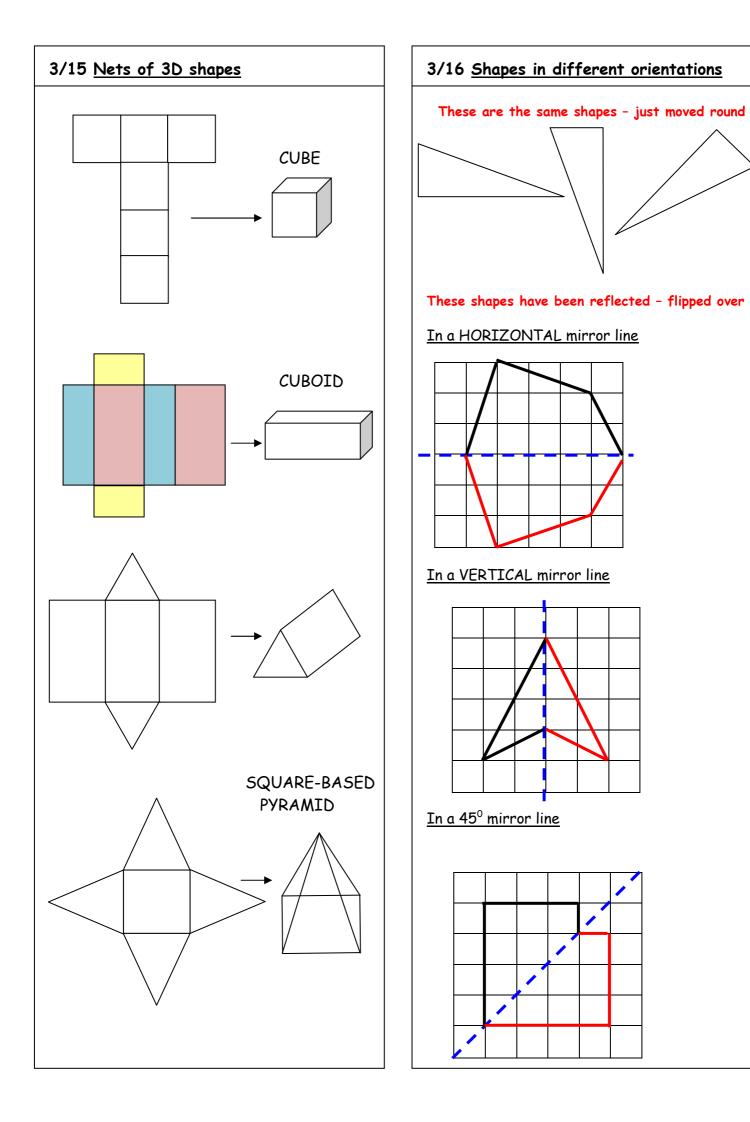
To divide by 10

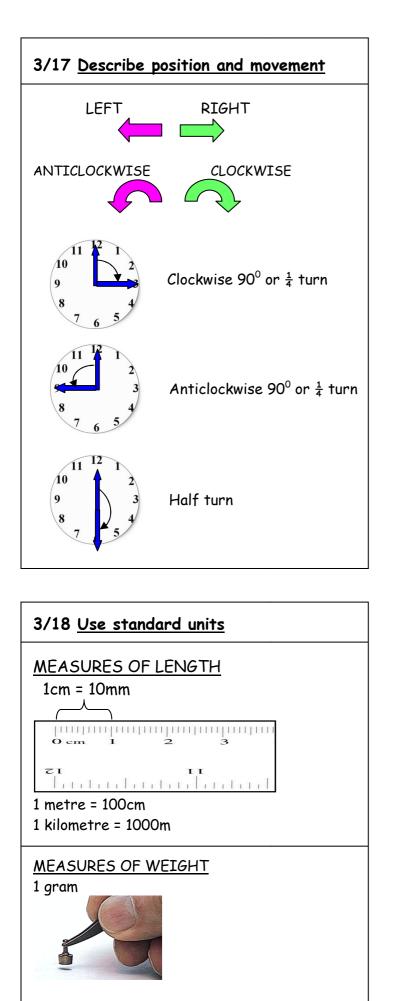
Move all the digits along one place to the right.

Н	Т	U
	3	0
		3

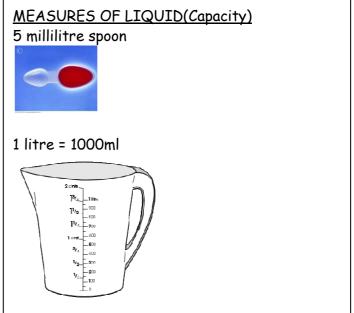
 $30 \div 10 = 3$







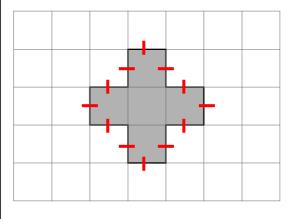
1kilogram = 1000g



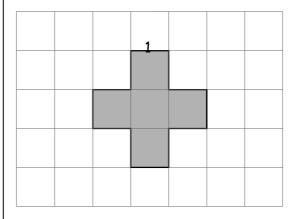
3/19 Other units of measure

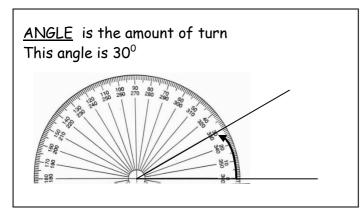
<u>PERIMETER</u> is the distance round the outside of a shape

Perimeter of this shape = 12cm



<u>AREA</u> is the number of squares **INSIDE** Area of this shape = 5 cm^2

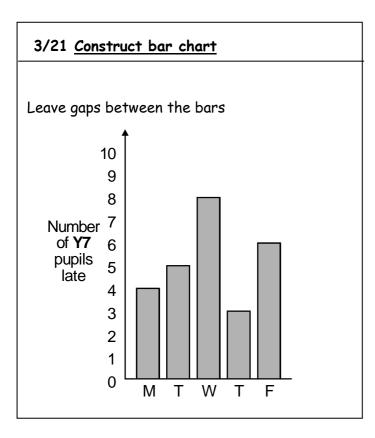




3/20 Gather information

To record the number of birds in the garden

Type of bird	Tally	Number of birds
Blackbird		10
Blue-tit		4
Starling		2
Sparrow		3
Other		1



3/21 Construct pictogram This question is about the number of bags of sugar you could buy with £10 Key: 4 bags = Number of bags Year 1995 1999 Do not forget the KEY 3/22 Venn Diagram These are used to record and sort information

Shapes with right angles

Shapes with equal sides

3/22 <u>Carroll Diagram</u>

	Number of Boys	Number of Girls
Brown eyes	11	12
Blue eyes	4	3

3/23 <u>Extract information from bar charts,</u> <u>pictograms and tables</u>