



Ashmount
Primary
School

Maths Skills Book

Part 2

NAME: _____

Number Patterns.

Fill in the missing numbers in these sequences of numbers.

1, 2, 3, 4, ___ ___ ___ ___
What is the pattern?

2, 4, 6, 8, ___ ___ ___ ___
What is the pattern?

20, 22, 24, 26, ___ ___ ___ ___
What is the pattern?

5, 10, 15, 20, ___ ___ ___ ___
What is the pattern?

3, 5, 7, 9, ___ ___ ___ ___
What is the pattern?

10, 20, 30, 40, ___ ___ ___ ___
What is the pattern?

90, 80, 70, 60, ___ ___ ___ ___
What is the pattern?



Can you think of your own patterns?



Ordering numbers

Sort these numbers into order from smallest to largest

| | | | | | | |
|----|----|---|----|----|----|----|
| 25 | 10 | 3 | 37 | 84 | 44 | 57 |
|----|----|---|----|----|----|----|

| | | | | | | |
|----|---|----|----|-----|----|----|
| 38 | 2 | 66 | 99 | 100 | 37 | 24 |
|----|---|----|----|-----|----|----|

| | | | | | | |
|----|---|---|----|----|----|----|
| 05 | 9 | 4 | 22 | 35 | 20 | 16 |
|----|---|---|----|----|----|----|

Sort these numbers from largest to smallest

| | | | | | | |
|----|----|----|----|----|----|----|
| 53 | 88 | 67 | 49 | 99 | 25 | 39 |
|----|----|----|----|----|----|----|

| | | | | | | |
|----|----|----|----|----|----|-----|
| 55 | 26 | 18 | 35 | 11 | 10 | 100 |
|----|----|----|----|----|----|-----|



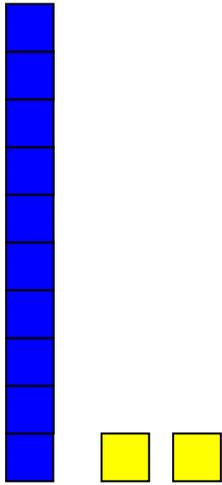
Can you now find all the different numbers you can make with the following digits?

| | | |
|---|---|---|
| 3 | 7 | 4 |
|---|---|---|

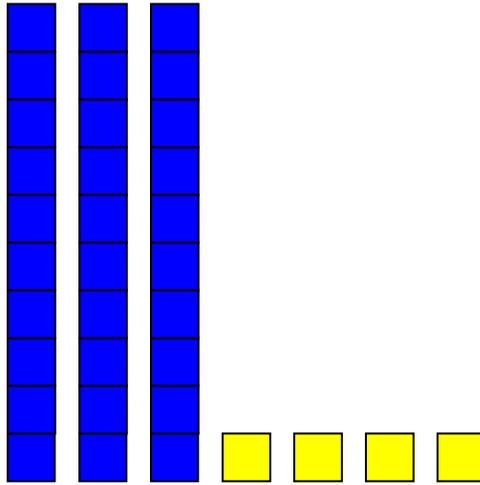


Place value.

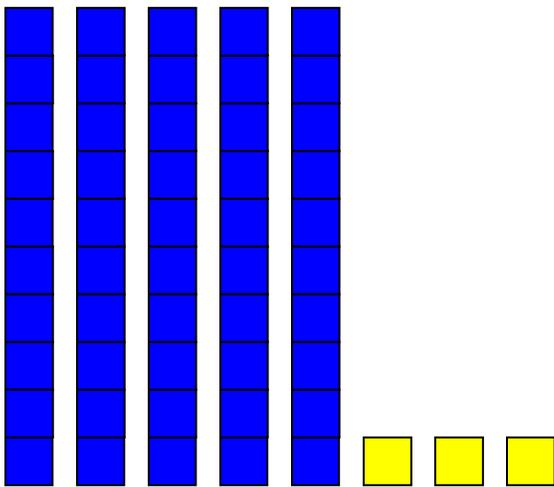
Can you use these ten sticks and units to work out the number they represent?



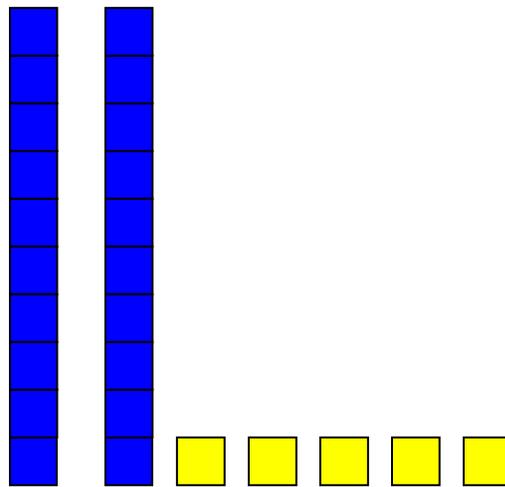
 ten + ones =



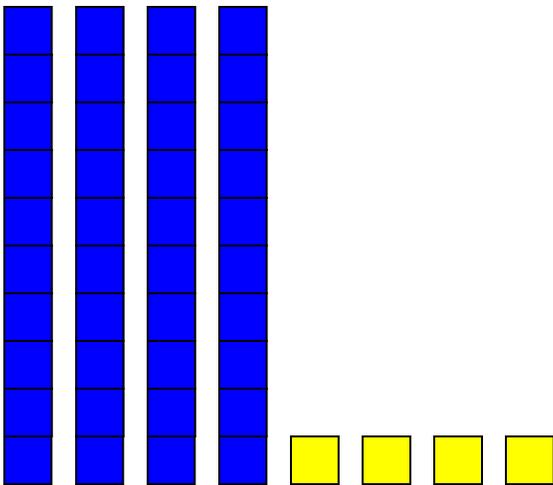
 tens + ones =



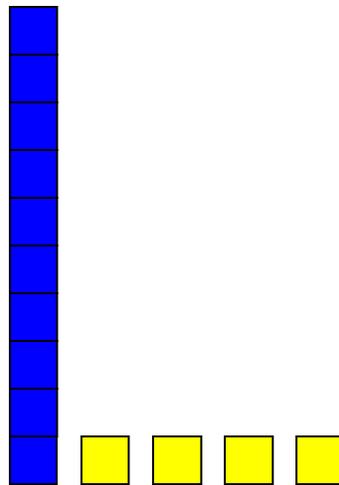
 tens + ones =



 tens + ones =



 tens + ones =



 ten + ones =

Place value.

Tom is thinking of some numbers and giving clues to what number he is thinking. Write his number in the box.



It has two hundreds, four tens and six units

It has three hundreds, two tens and two units

It has five hundreds, nine tens and five units

It has six hundreds, eight tens and one unit

It has three hundreds, six units and one ten

It has one hundreds, two units and seven tens



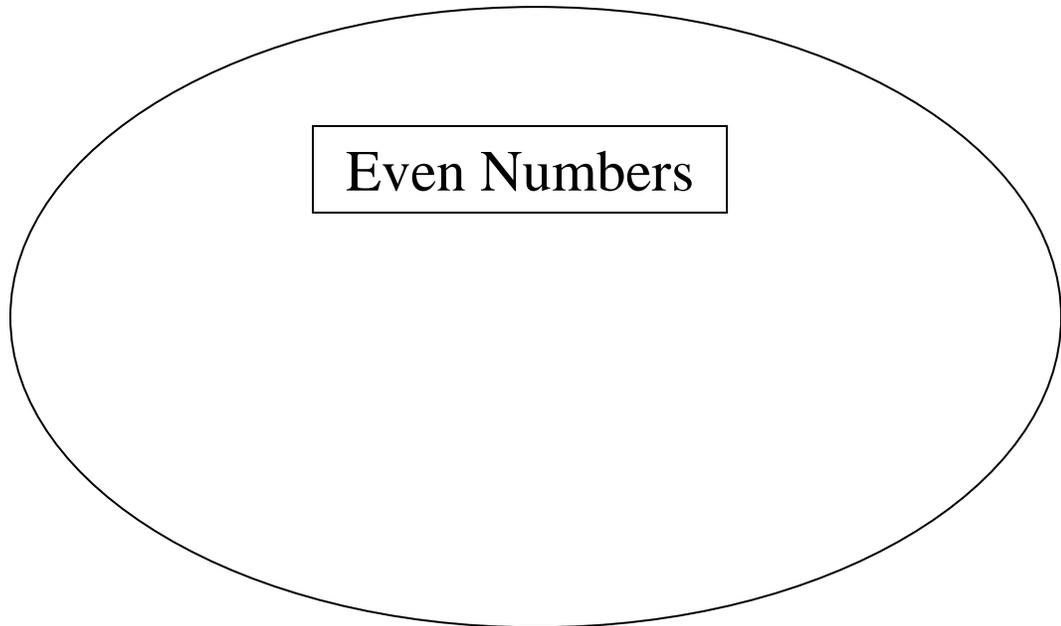
Can you write some of your own clues for different three digit numbers like Tom has done?



Sorting Odd and Even Numbers.

Odd Numbers

Even Numbers



Write these numbers in the correct oval

1, 8, 9, 10, 12, 13, 14, 15, 20, 22, 23, 28, 31

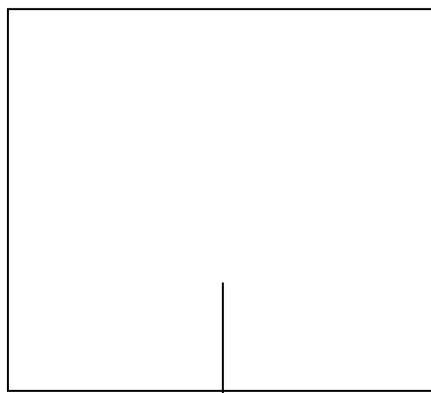


Can you sort any bigger numbers?

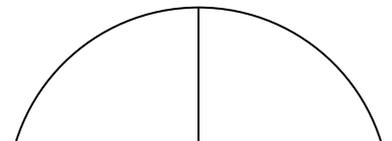
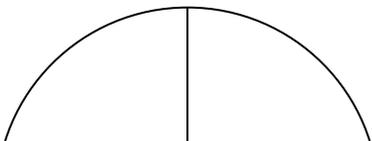


Colouring halves and quarters.

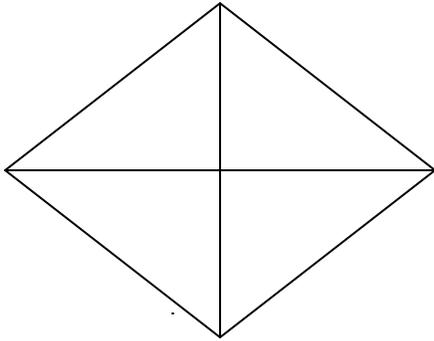
Colour in the
the shape.



correct fraction of

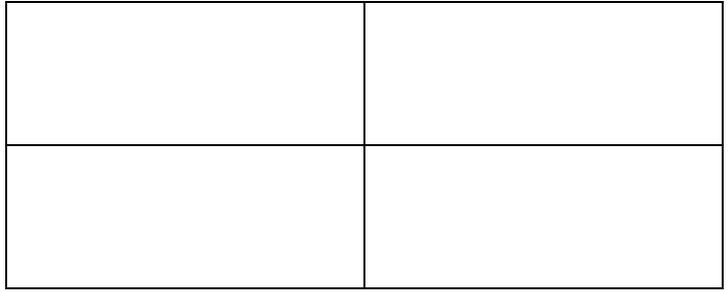


$\frac{1}{2}$



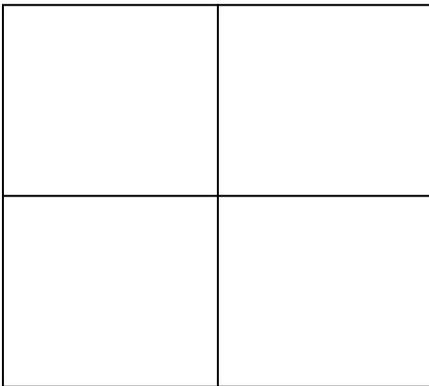
$\frac{1}{4}$

$\frac{1}{4}$

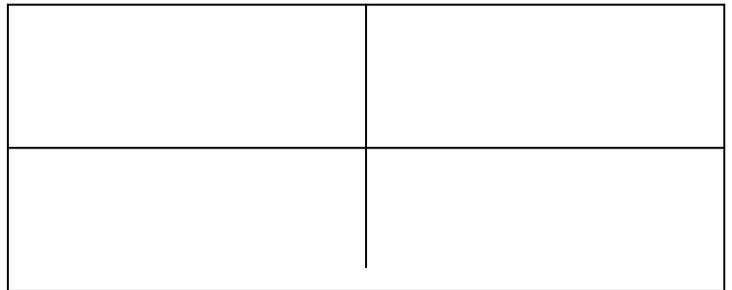


$\frac{1}{4}$

$\frac{1}{2}$



$\frac{1}{2}$



$\frac{1}{4}$

Looking at halves and quarters.

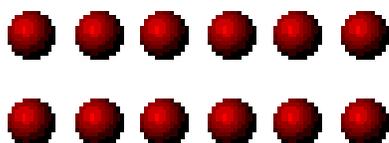


Draw a ring around $\frac{1}{2}$ of each set of items below.





Now draw a ring around $\frac{1}{4}$ of each set of items below (remember you could half them, and then half them again).



Next time you eat dinner can you halve the different foods on your plate?



Inverses.

Subtraction is the inverse of addition.

This means that it is the **opposite**.

Can you turn these addition sentences into subtractions?

$8 + 3 = 8$ The inverse of this is

$10 + 6 = 16$ The inverse of this is

$21 + 17 = 38$ The inverse of this is -

$35 + 25 = 60$ The inverse of this is

$29 + 18 = 47$ The inverse of this is

$74 + 54 = 128$ The inverse of this is



Can you write some of your own addition sentences and then find their inverses?



Inverses.

Addition is the inverse of subtraction.

This means that it is the opposite.

Can you turn these subtraction sentences into additions?

$8 - 3 = 5$ The inverse of this is + =

$10 - 6 = 4$ The inverse of this is

$21 - 17 = 4$ The inverse of this is -

$35 - 25 = 10$ The inverse of this is

$29 - 18 = 11$ The inverse of this is

$74 - 54 = 20$ The inverse of this is



Can you write some of your own subtraction sentences and then find their inverses?



Doubling Dice Game.

You can play this an adult, brother or sister.

You need 2 dice. Choose one colour crayon each.

Take turns to throw both the dice, find the total. Then double it, and colour in the answer on the grid. The winner is the first person to get 3 squares coloured in, in a row.

| | | | | |
|----|----|----|----|----|
| 18 | 10 | 24 | 8 | 16 |
| 14 | 12 | 6 | 14 | 20 |

| | | | | |
|----|----|----|----|----|
| 4 | 18 | 10 | 18 | 12 |
| 20 | 8 | 14 | 6 | 16 |
| 12 | 16 | 8 | 14 | 4 |



Can you double the following numbers?

DOUBLE 4 = _____

DOUBLE 8 = _____

DOUBLE 20 = _____

DOUBLE 50 = _____

DOUBLE 100 = _____

Can you halve the following numbers?

HALVE 8 = _____

HALVE 16 = _____

$$\text{HALVE } 40 = \underline{\hspace{2cm}}$$

$$\text{HALVE } 100 = \underline{\hspace{2cm}}$$

$$\text{HALVE } 200 = \underline{\hspace{2cm}}$$



Can you explain the link between halving and doubling?



| | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|
| 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 |

Use the grid to help find the secret message with the sums below by counting forwards to add and backwards to take away.

$$7 - 6 =$$

$$10 + 18 =$$

$$40 + 5 =$$

$$30 - 8 =$$

$$50 - 9 =$$

$$10 + 8 =$$

$$40 + 9 =$$

$$32 + 4 =$$

$$40 + 6 =$$

$$1 + 3 =$$

$$4 + 4 =$$

$$10 + 2 + 12 =$$

$$19 + 10 =$$

$$20 + 1 =$$

$$30 + 8 + 6 =$$

$50 - 8 =$

$48 + 0 =$

$16 + 10 =$

$2 + 4 =$

$5 + 6 =$

$30 + 1 =$

$15 + 10 =$

$7 + 7 =$

$10 + 6 + 10 =$

$20 - 11 =$

$45 - 7 =$

$20 + 10 + 1 =$

$5 - 3 =$

$22 - 6 =$



Colour in the answers on the 50 grid.

Knowing your number bonds to ten can help you add tens numbers.

| | |
|------------------------------|--------------------------------|
| $0 + \underline{\quad} = 10$ | $0 + 100 = 100$ |
| $1 + 9 = \underline{\quad}$ | $10 + 90 = \underline{\quad}$ |
| $2 + 8 = \underline{\quad}$ | $20 + \underline{\quad} = 100$ |
| $3 + \underline{\quad} = 10$ | $30 + 70 = 100$ |
| $4 + 6 = \underline{\quad}$ | $40 + 60 = \underline{\quad}$ |
| $5 + 5 = 10$ | $50 + \underline{\quad} = 100$ |
| $6 + \underline{\quad} = 10$ | $60 + 40 = 100$ |

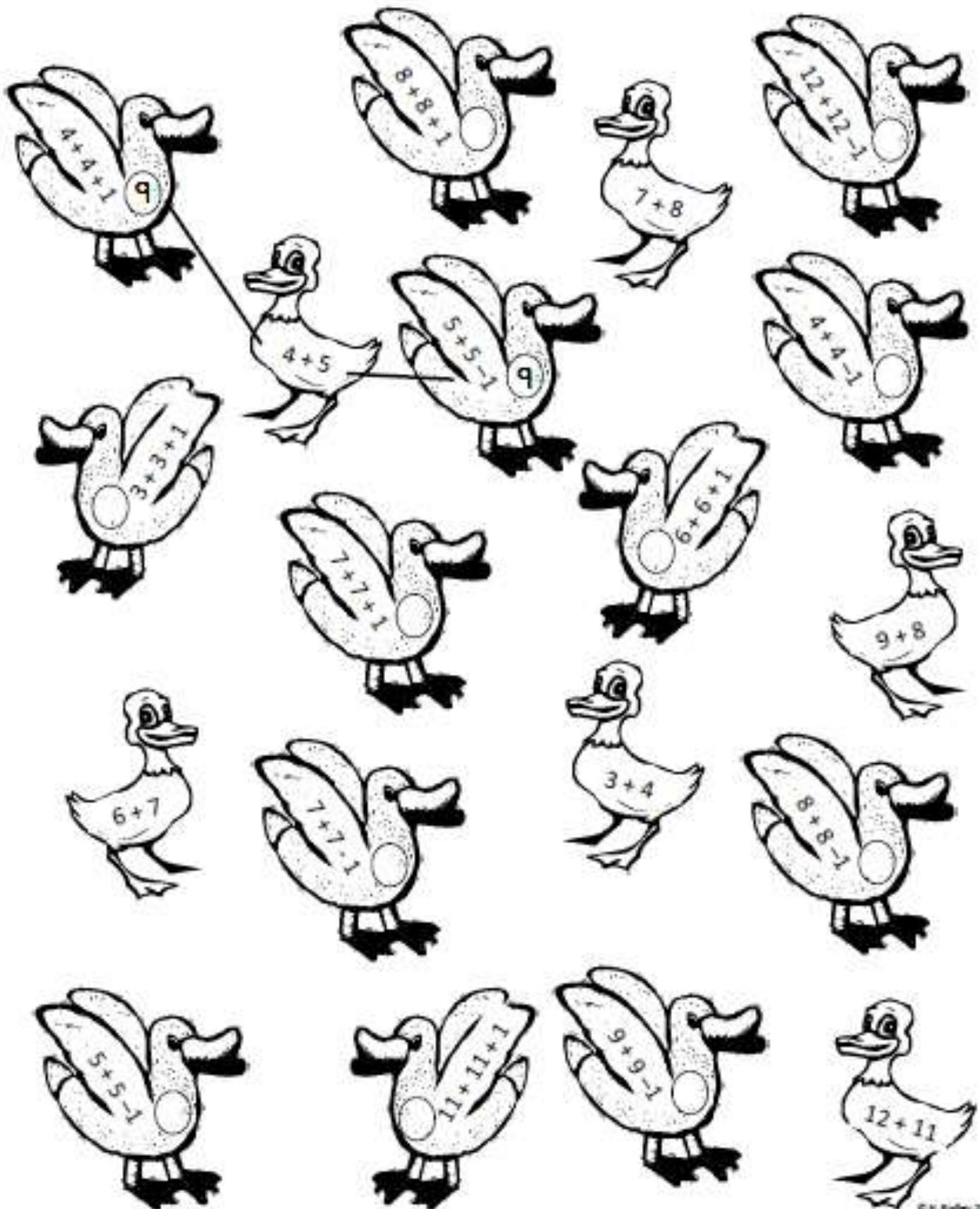
| | |
|-------------------------------|--------------------------------|
| $7 + 3 = \underline{\quad}$ | $\underline{\quad} + 30 = 100$ |
| $8 + 2 = 10$ | $80 + \underline{\quad} = 100$ |
| $\underline{\quad} + 1 = 10$ | $90 + 10 = \underline{\quad}$ |
| $10 + \underline{\quad} = 10$ | $\underline{\quad} + 0 = 100$ |



Using your knowledge of number bonds to ten, can you also add hundreds numbers?



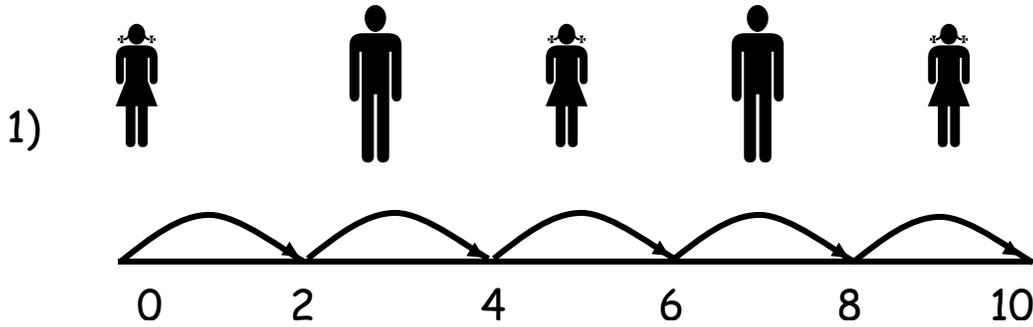
Match the sum to the double plus one and the double take away one. Then write the total in the circle. The first one has been done for you.



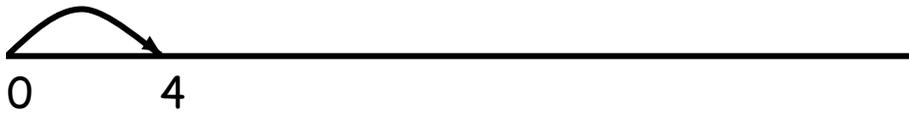
Multiplication using repeated addition.

Use a number line to work out how many legs.

The first one has been done for you.



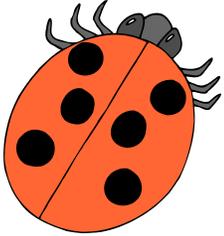
$$\underline{2 \times 5 = 10}$$



Word Problems.

Can you use your number skills to solve everyday maths problems?
You can draw in the box to help you if you need to.

1. A ladybird has 6 legs. How many legs do 3 ladybirds have?



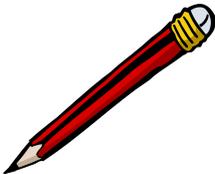
Write your number sentence here. _____

2. A table has 4 legs. How many legs do 4 tables have?



Write your number sentence here. _____

3. Mahir had 14 pencils. He gave 5 away. How many did he have left?



Write your number sentence here. _____

4. Safiya got 10 stickers. Then Miss Roberts gave her 8 more. How many did she have altogether?

Write your number sentence here. _____

5. Bulent had 20 cakes. He shared them with his friend. How many did they have each?



Write your number sentence here. _____

6. Arif had 18 grams of sweets. He shared them with his friend. How many grams did they have each?



Write your number sentence here. _____



Money questions.

John and Jack go to the shop. John buys a comic for 6p and Jack buys a lollipop for 3p. How much do they spend altogether?



Mary goes to the shop to buy some fruit. She buys an apple for 5p and an orange for 3p. What is the total amount she paid for the fruit?



At the fair Sally buys an ice cream for 2p and a cake for 5p. How much does Sally spend at the fair?



Max gives his sister and his brother 5p each. How much money did he give his brother and sister altogether?



Jo went to the shop and bought some grapes that cost 7p and a cookie that cost 4p. How much money did Jo spend?

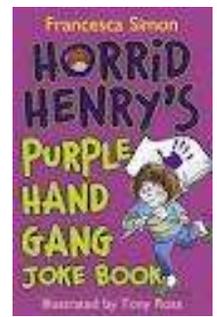


At the shop Jane spent 6p on some flowers and 7p on some chocolates for mum. How much did Jane spend at the shop?



Can you make up your own word problems when you go to the supermarket next?





Remember to show all of your working out for these Horrid Henry word problems.

Your Horrid Henry book is for sale in the shops. It costs £2.

1. Bill wants to buy 2 copies.

How much will it cost him?

2. Sam wants to buy a copy. He got £10 for his birthday.

How much change will he get?

3. Jack has got £14. How many copies can he buy?

4. The shop had 20 books. It has sold 8.

How many books are left?

Now for a tricky one!

5. If the shop has a half price sale, how many books can Tim buy for £5?

