



Ashmount  
Primary  
School

# Maths Skills Book

## Part 3

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# Notes for Parents and Carers

The aim of this booklet is to give your child an opportunity to practise and consolidate their maths skills at home with your support. It should give you ideas for further activities that you could do at home. The booklet supports activities that we are doing in class and offers an opportunity for your child to become more confident with their maths skills.


Skills that are covered in this booklet:

- Understanding place value in numbers to 1000.
- Recognise negative numbers.
- Be able to continue and describe number sequences.
- Understand simple fractions of numbers and objects and shape.
- Start to recognise which fractions are the same (equivalent).
- Begin to use decimals with money.
- Find division facts from multiplication facts.
- Add and subtract 2 digit numbers mentally.
- Know their times table facts.
- Using written methods in their calculations.
- Solve problems using the four operations (  $\times \div + -$  )

How to use this booklet:

This booklet is designed to be worked at by your child at their own pace, with your support where needed. Each page has a short introduction explaining what to do, followed by the activity. During the activity please feel free to write workings-out on the booklet. After the main activity, you may see this sign:



this is a challenge activity to push your child further if they are ready. At the bottom of the page there is this sign:  this is for your child to colour in or initial when they have completed the page. Please feel free to write notes on the page to communicate to us how your child found the activity.

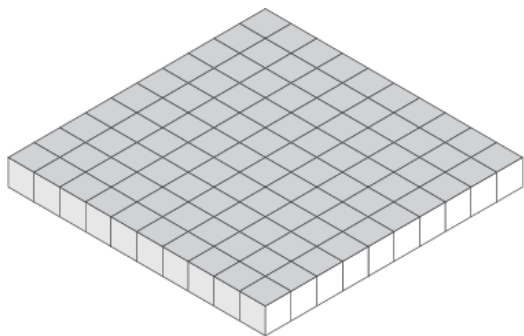
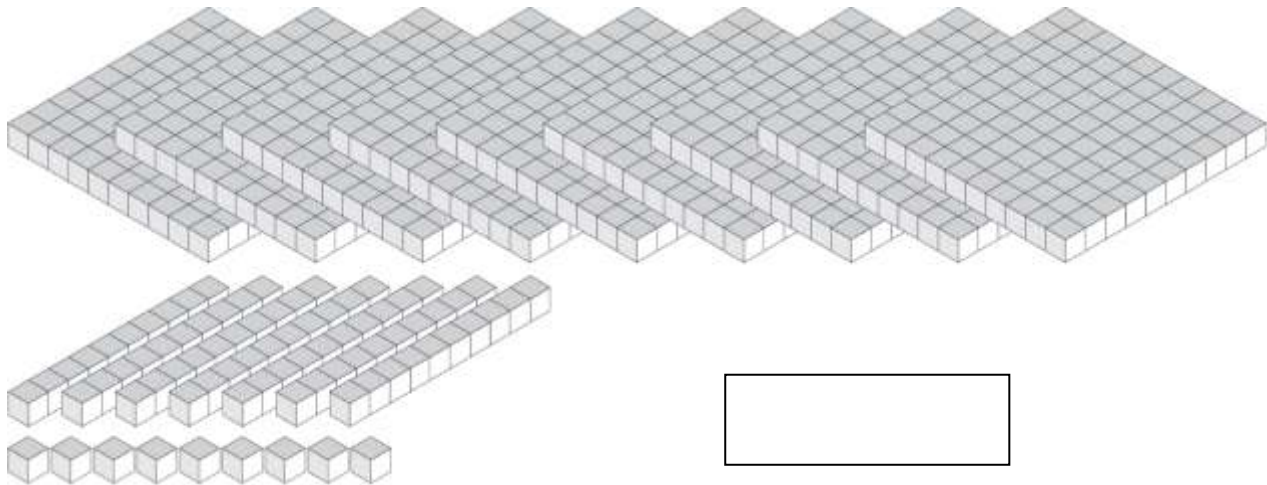
## Place Value

Put these numbers in order from the smallest to the largest

1042	673	491	782	226	89	505	02

48	829	892	63	909	271	990	21

Write the number these blocks are representing.



## Multiplying and dividing by 10 you need to remember:

When you multiply by 10 numbers move one column to the left.

When you divide by 10 numbers move one column to the right.

	Hundreds	Tens	Units
Number		3	7
X 10	3	7	0
Number	1	4	0
÷ 10		1	4

←  
→

Work out the answers to these number sentences. Draw out the hundreds tens and unit columns to help you if you need.

$41 \times 10 =$

$640 \div 10 =$

$67 \times 10 =$

$720 \div 10 =$

$98 \times 10 =$

$990 \div 10 =$

$21 \times 10 =$

$120 \div 10 =$

$18 \times 10 =$

$810 \div 10 =$



Can you try multiplying and dividing by 100? How many columns will you have to move this time?

$56 \times 100 =$

$7800 \div 100 =$

$24 \times 100 =$

$4600 \div 100 =$

$11 \times 100 =$

$200 \div 100 =$



## Rounding numbers:

Remember when rounding numbers to 10:

- if the unit number is 5 6 7 8 9 then round to the next 10
- if the unit number is 1 2 3 4 then round to the previous 10

Round these numbers to the nearest TEN:

67 \_\_\_\_\_

82 \_\_\_\_\_

231 \_\_\_\_\_

785 \_\_\_\_\_

379 \_\_\_\_\_

Round these numbers to the nearest 100:

Remember when rounding numbers to 100:

- if the TENS number is 5 6 7 8 9 then round to the next 100
- if the TENS number is 1 2 3 4 then round to the previous 100

440 \_\_\_\_\_

260 \_\_\_\_\_

880 \_\_\_\_\_

510 \_\_\_\_\_

350 \_\_\_\_\_



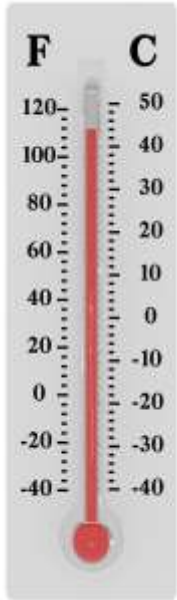
Write all the numbers that can be rounded to 70 to the nearest 10.

Write all the numbers that can be rounded to 420 to the nearest 10.



## Negative numbers

Some children at Ashmount have been recording the temperature each month. Below is a table of their results and a picture of the thermometer they used (they only look at the Celsius side).



Month	Temperature
January	-10°
February	-14°
March	10°
April	18°
May	16°
June	22°
July	28°
August	26°
September	12°
October	-1°
November	-18°
December	-24°

Put the months in order from coldest to hottest (just first 3 letters if you haven't got space e.g. Jan.)

Coldest

Hottest

--	--	--	--	--	--	--	--	--	--	--	--

How much colder was December than November?

How much hotter was September than October?



## Number Patterns.

Complete these number sequences. Remember to think about what the rule is for example - add 2 each time!

1) 3, 4, 5, 6, 7, 8, \_\_, \_\_, \_\_

What is the rule?

2) 14, 16, 18, 20, 22, \_\_, \_\_, \_\_

What is the rule?

3) 5, 10, 15, 20, 25, \_\_, \_\_, \_\_

What is the rule?

4) 80, 70, 60, 50, 40, \_\_, \_\_, \_\_

What is the rule?

5) 16, 26, 36, 46, 56, \_\_, \_\_, \_\_

What is the rule?

6) 88, 86, 84, 82, \_\_, \_\_, \_\_

What is the rule?

7) 1, 11, 21, 31, 41, 51, 61, \_\_, \_\_, \_\_

What is the rule?

8) 99, 89, 79, 69, 59, \_\_, \_\_, \_\_

What is the rule?

9) 13, 18, 23, 28, 33, \_\_, \_\_, \_\_

What is the rule?

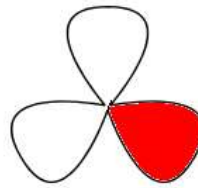
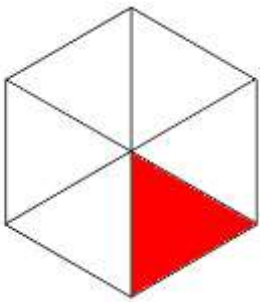
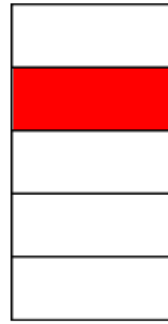
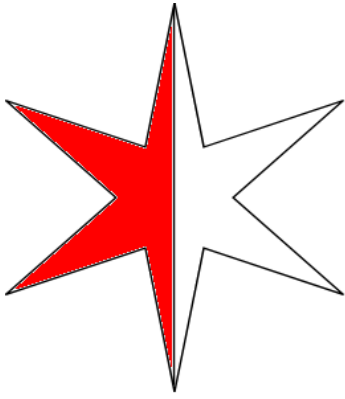
10) 49, 47, 45, 43, 41, 39, \_\_, \_\_, \_\_

What is the rule?

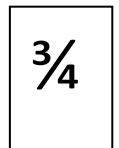
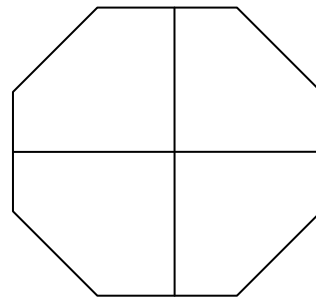
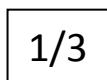
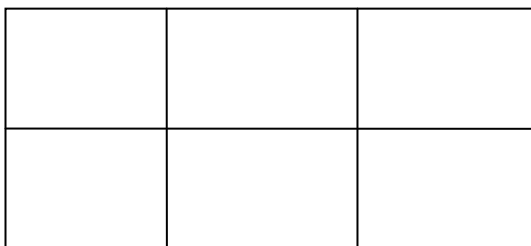
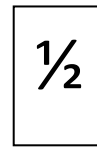
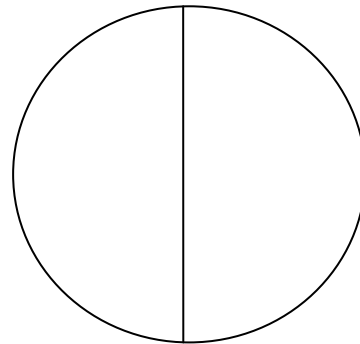
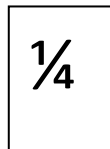
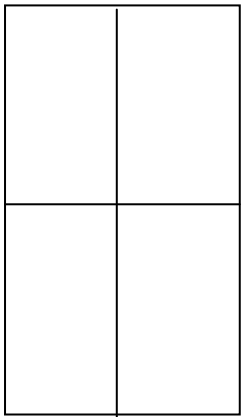


# Fractions

Write what fraction of the whole shape is shaded:



Shade in:





## Fractions

Find  $\frac{1}{2}$  of this number of sweets:



Find  $\frac{1}{4}$  of this number of apples:



Mr. Hines planted 18 bulbs. In the spring  $\frac{1}{3}$  of them grew into flowers. How many flowers grew?

Jacob had a pizza which he cut into 8 slices. He and his friends ate 6 slices. What fraction of the pizza did they eat?

At a party there were 20 biscuits.  $\frac{1}{5}$  of them were eaten. How many of them were eaten?

How many were left (write as a fraction and an amount)



## Fractions

Circle the fractions that are the same as  $\frac{1}{2}$ :

$$\frac{2}{4}$$

$$\frac{4}{8}$$

$$\frac{2}{6}$$

$$\frac{3}{12}$$

$$\frac{5}{10}$$

$$\frac{7}{14}$$

Write the numerator to make these fractions equal to  $\frac{1}{2}$

$$\frac{\quad}{12}$$

$$\frac{\quad}{2}$$

$$\frac{\quad}{10}$$

$$\frac{\quad}{8}$$

$$\frac{\quad}{6}$$

$$\frac{\quad}{20}$$

Match the fractions that are equivalent:



$$\frac{3}{4}$$

$$\frac{4}{8}$$

$$\frac{1}{2}$$

$$\frac{4}{12}$$

$$\frac{8}{16}$$

$$\frac{6}{8}$$

$$\frac{1}{4}$$

$$\frac{1}{2}$$

Circle the fractions that are the same as  $\frac{1}{4}$ :



$$\frac{2}{8}$$

$$\frac{4}{16}$$

$$\frac{2}{6}$$

$$\frac{3}{12}$$

$$\frac{5}{10}$$



## Money and Decimals

Circle which purse has the most money in:



Put these amounts of money into order from smallest to largest:

£8.92	£9.20	£2.90	£0.99	£1.01	£3.00

Write these amounts in pounds.

461p      £ \_\_\_\_\_

890p      £ \_\_\_\_\_

101p      £ \_\_\_\_\_

21p      £ \_\_\_\_\_

How would you write:

Five pounds and eleven pence      £ \_\_\_\_\_

Three pounds three pence      £ \_\_\_\_\_

Sixteen pounds forty pence      £ \_\_\_\_\_



# Inverses

Remember that multiplication is the OPPOSITE (inverse) of division!

Can you use these arrays to write your multiplication and division number sentences? The first one is done for you...



$$3 \times 2 = 6$$

$$2 \times 3 = 6$$

$$6 \div 3 = 2$$

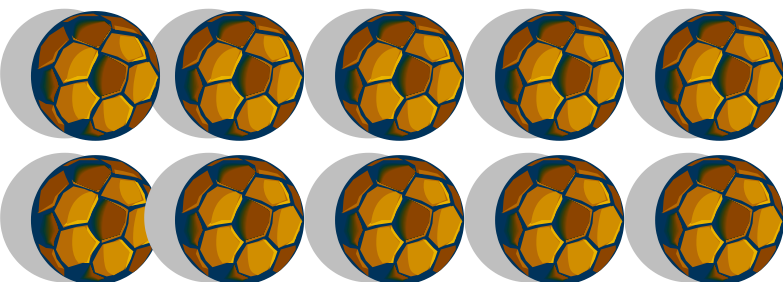
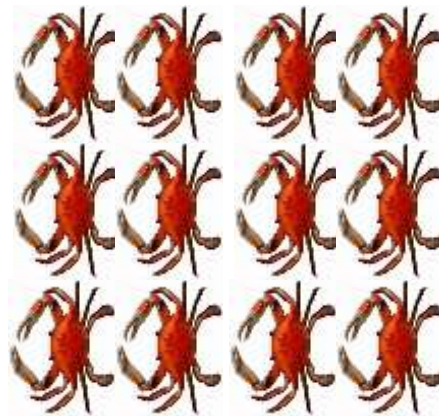


$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \div \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \div \underline{\quad} = \underline{\quad}$$



$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

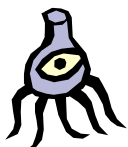
$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \div \underline{\quad} = \underline{\quad}$$

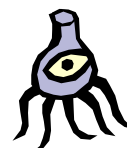
$$\underline{\quad} \div \underline{\quad} = \underline{\quad}$$

Can you use some counters or coins to make up your own?





# The Inverse Monster!



The inverse monster likes to chew up and spit out calculations back to front! Can you help him change these number sentences?

$6 \times 3 = 18$		$18 \div 6 = 3$
$7 \times 5 =$		$\_ \div \_ = \_$
$9 \times 6 =$		$\_ \div \_ = \_$
$10 \times 7 =$		$\_ \div \_ = \_$
$4 \times 5 =$		$\_ \div \_ = \_$
$7 \times 4 =$		$\_ \div \_ = \_$

Can you make your own number sentences?




# The Times Table Challenges!

<b>X</b>	<b>3</b>	<b>5</b>	<b>2</b>	<b>10</b>	<b>4</b>
<b>5</b>					
<b>10</b>					
<b>2</b>					
<b>6</b>					
<b>4</b>					
<b>8</b>					
<b>7</b>					
<b>3</b>					
<b>9</b>					



How many can you answer in 5 minutes?



# The Times Table Challenges!

X	8	6	5	4	7	9	2	3
9								
6								
1								
4								
7								
10								
8								
5								



How many can you answer in 5 minutes?



# Can you find the missing number?

1. I think of a number. I multiply it by 2 and my answer is 14. What was my number?

$$\boxed{\phantom{000}} \times 2 = 14$$

2. I think of a number. I add 6 and my answer is 16. What was my number?

$$\boxed{\phantom{000}} + 6 = 16$$

3. I think of a number. I subtract 5 and add 2. My answer is 7, what was my number?

$$\boxed{\phantom{000}} - 5 + 2 = 7$$

4. I think of a number. I add 5 and then doubled it. My answer is 16, what was my number?

$$\boxed{\phantom{000}} + 5 \times 2 = 16$$

5. I think of a number. I halve it, add 8 and my answer is 13. What was my number?

$$\boxed{\phantom{000}}$$



Can you make up some missing number problems?





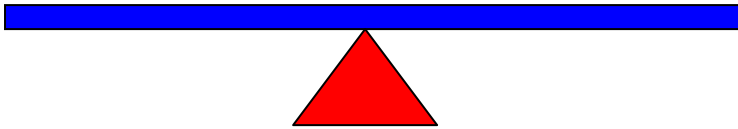
# Balancing sums

Remember – equals means the same as.

Can you make the answers the same so that the scale balances?

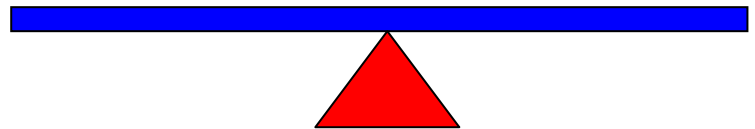
$6 \times 5 =$

$3 \times \underline{\quad}$



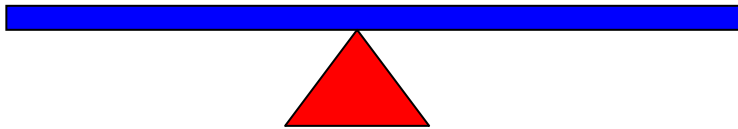
$10 + \underline{\quad}$

$7 \times 4 =$



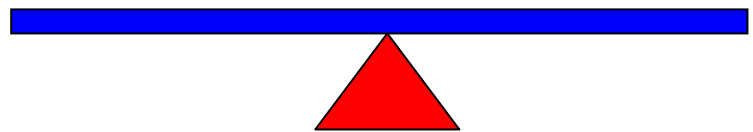
$5 + 20$

$5 \times \underline{\quad}$



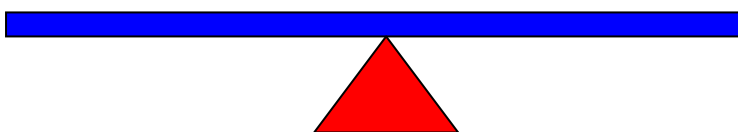
$6 \times 3 =$

$30 - \underline{\quad}$



$20 - 14 =$

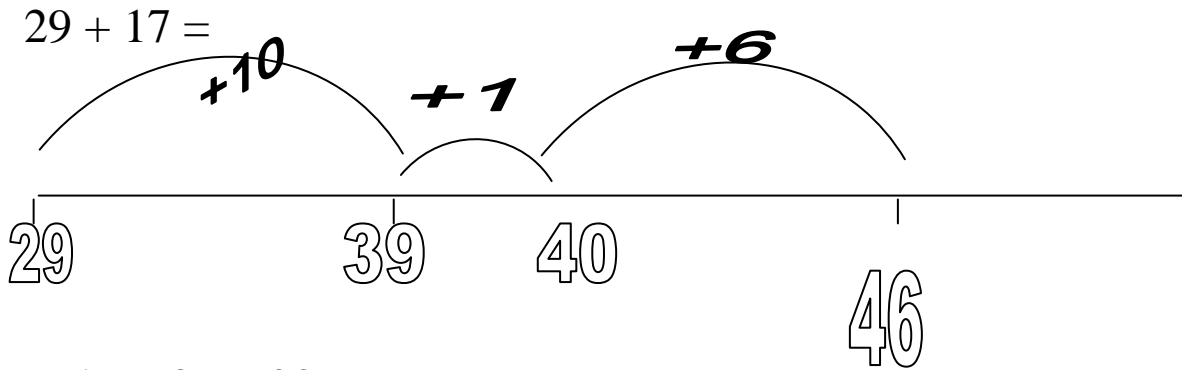
$24 \div$



# Add 2 digit numbers mentally

Answer these questions using a number line.

One has been done for you.



1.  $37 + 28 =$

---

2.  $72 + 39 =$

---

3.  $185 + 57 =$

---

4.  $386 + 46 =$

---

Can you make any more sums up and solve them?



# Subtract 2 digit numbers mentally

Subtract: Put the number you are taking away FROM on the right and take away to find your answer.

5.  $42 - 19 =$

---

6.  $73 - 38 =$

---

42

7.  $184 - 67 =$

---

8.  $276 - 89 =$

---

9.  $173 - 68 =$

---

10.  $987 - 398 =$

---



# Multiplying TU x U (Grid method)

$12 \times 5 = 60$

x	10	2	50
5	50	10	<u>10</u>
			60

$46 \times 4 =$


$3 \times 29 =$


$59 \times 4 =$


$61 \times 5 =$


$7 \times 14 =$


$83 \times 4 =$


$91 \times 4 =$




# Finding a quarter

## (halving and halving again)

When we are trying to find a quarter of a number, remember that we can halve it, then halve it again.

For example,  $\frac{1}{4}$  of 16 =

$$\frac{1}{2} \text{ of } 16 = 8$$

$$\frac{1}{2} \text{ of } 8 = 4$$

So  $\frac{1}{4}$  of 16 is 4 (*you can check they are correct by using the inverse ( $4 \times 4 = 16!$ )*)

Now try these...

1.  $\frac{1}{4}$  of 8 =
2.  $\frac{1}{4}$  of 12 =
3.  $\frac{1}{4}$  of 24 =
4.  $\frac{1}{4}$  of 32 =
5.  $\frac{1}{4}$  of 20 =
6.  $\frac{1}{4}$  of 36 =
7.  $\frac{1}{4}$  of 40 =
8.  $\frac{1}{4}$  of 28 =
9.  $\frac{1}{4}$  of 44 =
10.  $\frac{1}{4}$  of 100 =



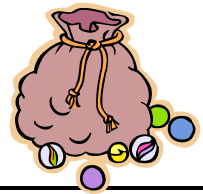
Can you work out a way to find  $\frac{1}{8}$  (one eighth) of a number?



Think about which operation you need to use to solve these word problems:

Michael rolls a marble 36cm forward. Laura rolls her marble 18cm further than Michael.

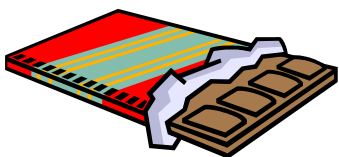
How far did Laura roll her marble?



Melissa has 80p.

She spends 37p on a bar of chocolate.

How much money does she have left?



A sack of flour weighs 38kg.

How much do 3 bags weigh?



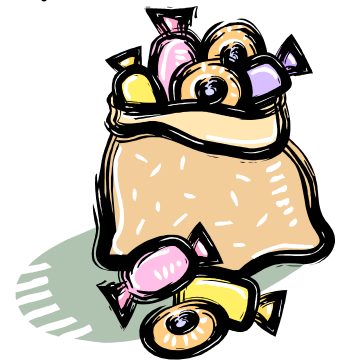
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Julia wants to buy a bag of sweets.

She gives the shopkeeper 35p.

The shopkeeper says "you need 45p more to buy the sweets."

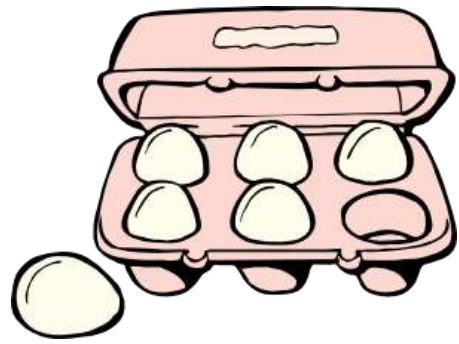
How much do the sweets cost?



Farmer Joe has 39 eggs.

He puts them into cartons.

Each carton holds 6 eggs.



How many cartons does he need to hold all of the eggs?

---

Stanley and Gemma both collect football stickers.

Stanley has 87 stickers.

Gemma has 43 stickers.



How many more stickers does Stanley have than Gemma?





A bunch of bananas costs 26p.

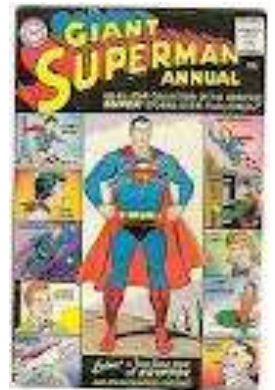
How much do 5 bunches cost?



---

Sheena collected two comics every month for two years.

How many comics did she collect?



David and Sarah are playing a game.

David scores 27 points.

Sarah scores 35 points.

How many points have they scored altogether?



---

34 children go camping.

They all sleep in tents. Each tent can sleep four children.

How many tents will they need?



Can you solve problems that require you to complete two steps?

Andy is reading a book that has 95 pages. He read 15 pages in the morning and 25 pages in the afternoon.

How many more pages does he have left to read?



Olivia buys an apple for 18p and an orange for 23p.

She pays with a 50p coin.



How much change does she get back?

---

22 passengers were on the bus.

8 got off at the next stop.



Then 13 more passengers got on.

How many passengers were left on the bus?



Can you use a **written** method to solve these problems?

$$465 + 228$$

$$372 + 264$$

$$539 + 246$$

$$487 + 255$$



Can you use a **written** method to solve these problems?

$$374 - 158$$

$$638 - 274$$

$$642 - 317$$

$$702 - 367$$



Can you use a **written** method to solve these problems?

$$27 \times 4$$

$$78 \times 2$$

$$64 \times 5$$

$$57 \times 3$$



Can you use a **written** method to solve these problems?

$$54 \div 3$$

$$48 \div 4$$

$$67 \div 4$$

$$38 \div 5$$





Can you add and subtract these amounts of money?

Don't forget to include the pound sign (£) and the decimal point in your answers!



$$£3.36 + £2.53$$

$$£4.78 + £2.21$$

$$£7.87 - £3.25$$

$$£6.94 - £1.72$$

