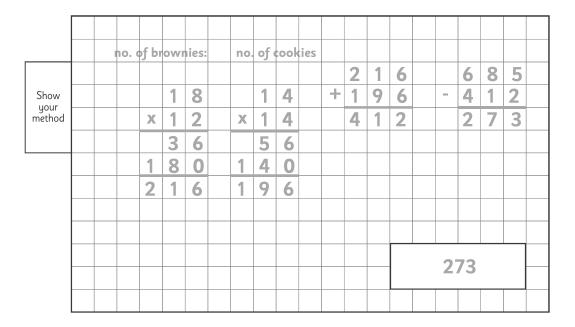**1** A baker needs to make 685 desserts for an event.

He has made trays of brownies and cookies.

This table shows the number of trays he has made of each dessert and how many are in each tray.

Type of dessert	Number of trays	Number of dessert in each tray
Brownies	12	18
Cookies	14	14

How many more desserts does he need to make?

Show your method

```
no. of brownies:      no. of cookies
                                    2 1 6       6 8 5
        1 8           1 4       +  1 9 6     -  4 1 2
      x 1 2         x 1 4          4 1 2        2 7 3
        3 6           5 6
      1 8 0         1 4 0
      2 1 6         1 9 6
```

273

2 marks

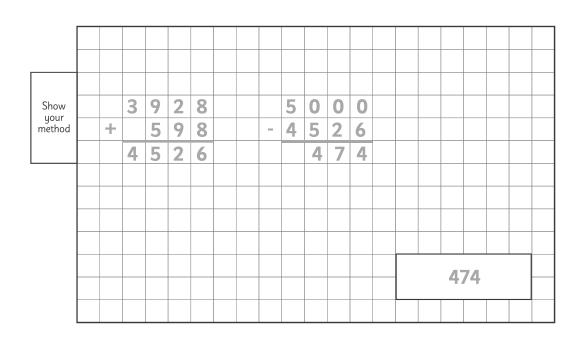**2** Bea is writing the first chapter of her book

She has written 3,928 words.

She writes another 598 words.

She wants to write 5,000 words in total

for the first chapter.

How many more words does she need to write?

Show your method

```
   3 9 2 8        5 0 0 0
 +   5 9 8      - 4 5 2 6
   4 5 2 6          4 7 4
```

474

2 marks

3 How many days are there in June, July and August altogether?
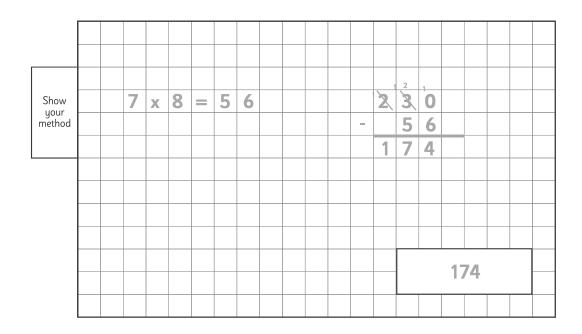
June: 30
July: 31
August: 31
─────────────
         92

92

1 mark

4 A class's reading corner has 230 books.

7 children take 8 books each.

How many books are left in the reading corner?

Show your method

7 x 8 = 5 6

2 3 0
-   5 6
1 7 4

174

5 Aiden, Sam and Hassan are building towers.

Aiden's tower is 54cm tall.

Sam's tower is 8cm shorter than Aiden's.

Hassan's tower is 12cm taller than Sam's.

How tall is Hassan's tower in cm?

Aiden's tower: 54cm

Sam's tower: 54-8=46cm

Hassan's tower: 42+12=58cm

58cm

1 mark

6 Whiteboards are sold in packs of 12.

Mrs S has 30 children in her class.

How many packs must she buy?

$$12 \times 3 = 36$$

3

How many whiteboards will she have left over?

$$\begin{array}{r} 36 \\ - \ 30 \\ \hline 6 \end{array}$$

6

2 marks

Whiteboard pens are sold in packs of 20.

Mrs S buys 2 packs.

How many whiteboard pens will she have left over?

$$20 \times 2 = 40$$

$$\begin{array}{r} 40 \\ - \ 30 \\ \hline 10 \end{array}$$

10

7 In one year, four pet shops made a combined total of £511,908 profit.

Pet shop A made £98,583
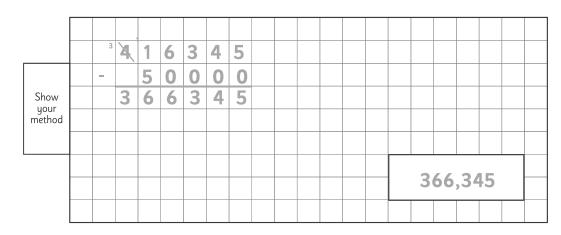Pet shop B made £104,541
Pet shop C made £84,329

How much did Pet Shop D make?

2 marks

Show your method

```
  1 0 4 5 4 1        2 0 3 1 2 4
+   9 8 5 8 3      +   8 4 3 2 9
  2 0 3 1 2 4        2 8 7 4 5 3


  5 1 1 9 0 8
-  2 8 7 4 5 3
  2 2 4 4 5 5
```

£ 244,455

8   A house costs £416,345

On sale, it is reduced by £50,000

What is the **sale** price of the house?

Show your method

```
    ³4̶ 1 6 3 4 5
  -   5 0 0 0 0
    3 6 6 3 4 5
```

366,345

1 mark

9   Sara is building a set of shelves for her books.

One shelf holds **24** books.

She has **90** books.

How many shelves will she need to hold all of her books?

```
   24        24
 x  3      x  4
 ----      ----
  72        96
```

4

Her sister, Mia, has **7 full shelves** of books.

How many books does Mia have altogether?

```
   24
 x  7
 ----
  168
    ₂
```

168

2 marks

10 Gail is baking some chocolate chip cookies and chocolate chip cupcakes for a bake sale.

Each cookie has 27 chocolate chips.

She makes 42 chocolate chip cookies.

Each brownie has 32 chocolate chips.

She makes 28 brownies.

How many chocolate chips does Gail need to buy **altogether?**

2 marks

Show your method

```
        4 2           3 2          1 1 3 4
    x   2 7       x   2 8      +     8 9 6
      2 9 4         2 5 6        2 0 3 0
      8 4 0         6 4 0
    1 1 3 4         8 9 6
```

2,030

11 Saskia has tray of 67 plants.

She gives 28 plants to her sister.

How many plants does Saskia have left?

```
  5 1
  ⁶7
- 2 8
  3 9
```

39

Amirah is planting some flowers in her garden.

She has 6 different flower beds and plants 12 flowers in each bed.
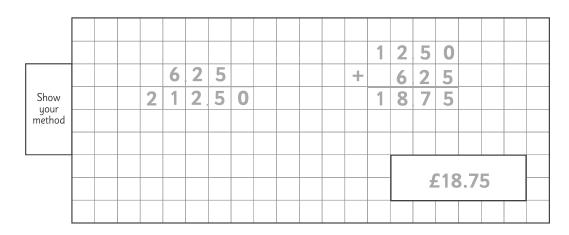
She has 14 flowers left over.

How many flowers did she start with?

2 marks

```
    1 2        7 2
  x    6     +  1 4
    7 2        8 6
```

86

grammarsaurus.co.uk

12 A bakery is running sale offer.

Buy one cake for £12.50, get the second cake for half price.

Amelia buys two cakes.

How much does she pay **altogether?**

Show your method

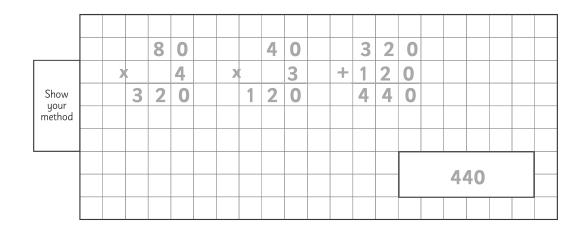|			1	2	5	0
	6	2	5	+	6	2	5
2	1	2 . 5	0		1	8	7	5

£18.75

2 marks

13 Mr P buys 4 large boxes of toys and 3 small boxes of toys for his classroom.

Each large box contains 80 toys. Each small box contains 40 toys.

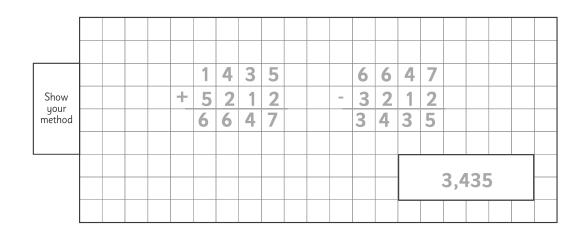How many **toys** did Mr P buy altogether?

Show your method

	8	0		4	0		3	2	0
x		4	x		3	+	1	2	0
3	2	0		1	2	0		4	4	0

440

2 marks

14 On Saturday morning, there were 1,435 people at a shopping centre.

At midday, 5,212 people had arrived and 3,212 had left.

How many people were there at midday?

Show your method

```
    1 4 3 5        6 6 4 7
  + 5 2 1 2      - 3 2 1 2
    6 6 4 7        3 4 3 5
```

3,435

1 mark

15 Four children are playing a game.

Otto scores 4 points more than Millie.

Millie scores 12 points less than Arlen.

Caitlin scores 7 points less than Arlen.

Write the children's names in order, starting with the child who scored the most points.

Millie's points	m
Otto's points	$m + 4$
Arlen's points	$m + 12$
Caitlin's points	$m + 12 - 7 = 5$

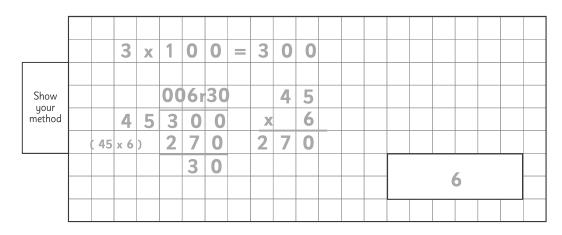Arlen   **Most points**
_____
Caitlin
_____
Otto
_____
Millie
_____

1 mark

16 Idris is making necklaces.

Each necklace has **45** beads.

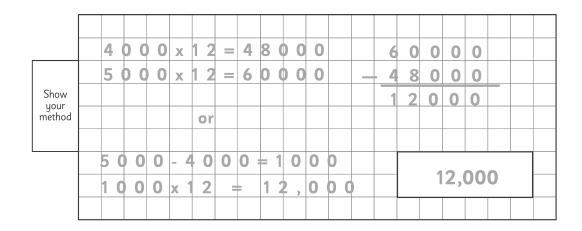He has **3** boxes of beads. Each box contains **100** beads each.

How many complete necklaces can Idris make?

Show your method

```
3 x 1 0 0 = 3 0 0

        0 0 6 r 3 0        4 5
    4 5 3 0 0          x   6
(45 x 6) 2 7 0      2 7 0
            3 0
```

6

2 marks

---

17 A book has 12 chapters.

Each chapter has between 4,000 and 5,000 words.

What is the **difference** between the **least** amount of words and the **greatest** amount of words the book could contain?

Show your method

```
4 0 0 0 x 1 2 = 4 8 0 0 0        6 0 0 0 0
5 0 0 0 x 1 2 = 6 0 0 0 0    −   4 8 0 0 0
                                 1 2 0 0 0
            or

5 0 0 0 − 4 0 0 0 = 1 0 0 0
1 0 0 0 x 1 2   =   1 2 , 0 0 0
```

12,000

2 marks

18

One hen lays 8 eggs a week.

A farmer has 23 hens.

At the end of the week, he packs their eggs into boxes.

Each box holds six eggs.

How boxes can the farmer **fill**?

```
  2 3        3 0 r 4
x   8      6|1 8 4
  1 8 4
```

| 30 |

☐
2 marks

How many eggs will be **leftover?**

| 4 |

19

Emran buys 8 large boxes of books and 2 small boxes of books.

Large boxes of books contain 25 books.

Small boxes of books contain 12 books.

How many **books** did Emran buy altogether?

Show your method

```
    2 5        1 2        2 0 0
  x   8      x   2      +   2 4
  2 0 0        2 4        2 2 4
```

☐
2 marks

| 224 |

20 A baker sells boxes of cupcakes in **boxes of 12** and **boxes of 24**

Renee buys **5 boxes of 12 cupcakes.**

How many cupcakes is this?

12 x 5 = 60

60

Stephen bought some boxes of **24 cupcakes.**

Altogether, he has **168 cupcakes.**

How many trays **packs of 24** did he buy?

```
  0 0 7        24
24|1 6 8      x  7
             ─────
              168
```

7

2 marks