Preface

Mastering Mathematics is a series of 6 books written in accordance with the latest Primary Mathematics Syllabus issued by the Ministry of Education, Singapore.

The primary objective of this series of books is to help pupils generate greater interest in Mathematics and gain more confidence in solving mathematics problems. To achieve this, special features are incorporated in the series.

Special Features

✔ Topical Revision

Enables pupils of mixed abilities to be exposed to a good variety of questions which are of varying levels of difficulty. This helps them develop a better understanding of mathematical concepts and their applications.

Questions are labelled with

Beginner, **Intermediate**, **Advanced** to show the difficulty level.

✔ Mid-Year and End-Of-Year Revision

Provide pupils with a good review of the topics learnt for the necessary practice and reinforcement in preparing them for semestral examinations.

✔ Take the Challenge!

Deepens pupils' mathematical concepts and helps develop their mathematical reasoning and higher-order thinking skills as they apply their problem-solving strategies.

✔ More Challenging Problems

Stimulate pupils' interest through challenging and thought-provoking problems which encourage them to think critically and creatively as they apply their knowledge and ability to solve these problems.

Why this Series?

Pupils will find this series of books a good complement and supplement to the school textbooks and workbooks. The comprehensive coverage certainly makes this series a valuable resource for teachers, parents and tutors.

It is hoped that the special features in this series of books will inspire and spur our young pupils to achieve better mathematical competency and greater problem-solving skills in mathematics.
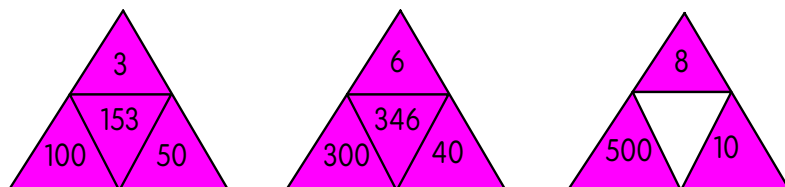
Contents

9 Fill in the correct answers.

(a) The number after 569 is _____ .

(b) The number before 1000 is _____ .

(c) 823 comes just before _____ .

(d) 141 comes just after _____ .

(e) 760 is between 759 and _____ .

(f) The number between 633 and 635 is _____ .

(g) 1 more than 899 is _____ .

(h) 10 more than 560 is _____ .

(i) 100 less than 426 is _____ .

(j) 115 is 100 more than _____ .

(k) 730 is _____ less than 830.

(l) 544 is 10 less than _____ .

(m) $371 =$ _____ $+ 70 + 1$

(n) $925 = 900 +$ _____ $+ 5$

(o) $208 = 200 +$ _____

10 Study the pattern below.

The missing number is _____ .

(g)
```
    7  4  2
+   1  4  1
_____

_____
```

(h)
```
    2  6  8
+      3  1
_____

_____
```

(i)
```
    3  1  4
       1  2
+   4  6  3
_____

_____
```

Subtraction Without Renaming

Example

$756 - 224 = ?$

We subtract like this:

Step 1
```
  H  T  O
  7  5  6
– 2  2  4
_____
        2
_____
```
Subtract the ones.

Step 2
```
  H  T  O
  7  5  6
– 2  2  4
_____
     3  2
_____
```
Subtract the tens.

Step 3
```
  H  T  O
  7  5  6
– 2  2  4
_____
  5  3  2
_____
```
Subtract the hundreds.
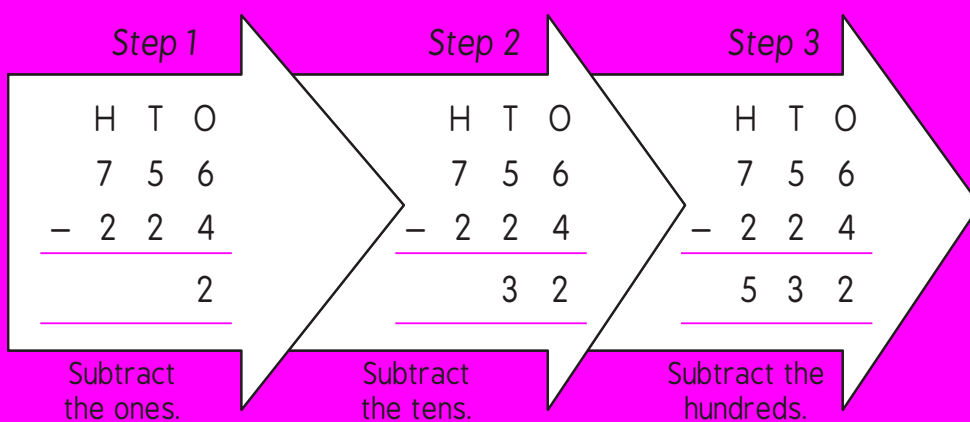
2 Subtract the following.

(a)
```
    6  7  9
–   1  3  2
_____

_____
```

(b)
```
    2  5  8
–      1  7
_____

_____
```

(c)
```
    4  1  9
–   1  0  6
_____

_____
```

(d)
```
    3  8  6
–      5  1
_____

_____
```

(e)
```
    9  6  7
–   7  3  4
_____

_____
```

(f)
```
    8  9  3
–   3  4  1
_____

_____
```

5 Work out all the sums in order to reach home. You may turn the page as you work on the sums.

+19

−99

−96

+20

−86

+16

+210

−66

−92

88

+111

−69

+8

−21

−97

+48

+111

200

−14

−45

+75

10 Count in twos. Fill in the blanks.

(a) 1 duckling has 2 feet.

(b) 2 ducklings have $2 + 2$ feet.

2 ducklings have _____ × _____ feet.

2 ducklings have _____ feet altogether.

(c) 3 ducklings have _____ + _____ + _____ feet.

3 ducklings have _____ × _____ feet.

3 ducklings have _____ feet altogether.

(d) 4 ducklings have _____ + _____ + _____ + _____ feet.

4 ducklings have _____ × _____ feet.

4 ducklings have _____ feet altogether.

(e) 5 ducklings have _____ + _____ + _____ + _____ + _____ feet.

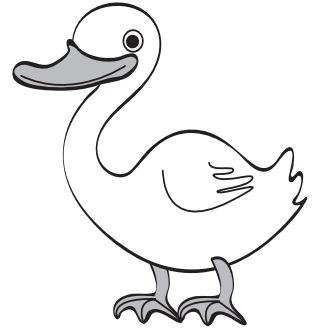5 ducklings have _____ × _____ feet.

5 ducklings have _____ feet altogether.

(f) 6 ducklings have _____ × _____ = _____ feet altogether.

(g) 7 ducklings have _____ × _____ = _____ feet altogether.

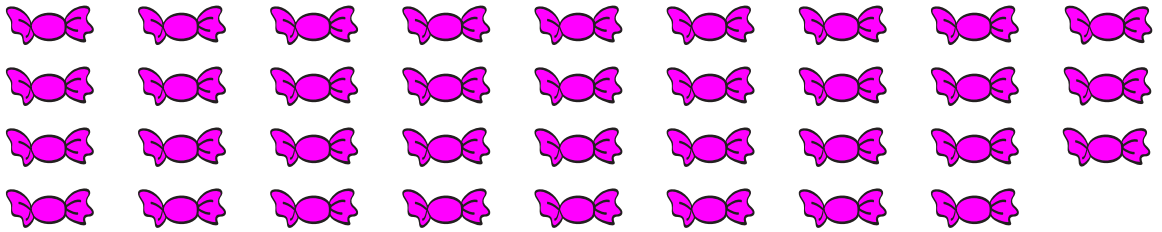**(h)** 8 ducklings have _____ × _____ = _____ feet altogether.

(i) 9 ducklings have _____ × _____ = _____ feet altogether.

(j) 10 ducklings have _____ × _____ = _____ feet altogether.

11 $10 \times 2 = 2 \times$ _____ $= 10 +$ _____ $=$ _____
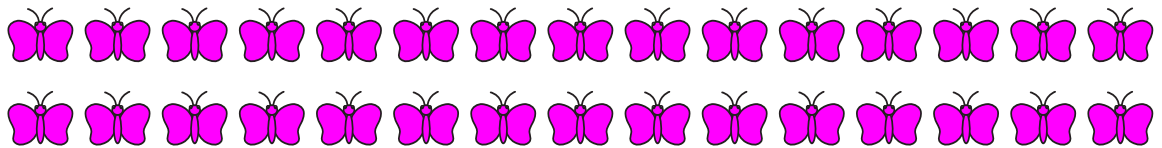
27 Ring in sets of 5.

There are _____ sweets altogether.

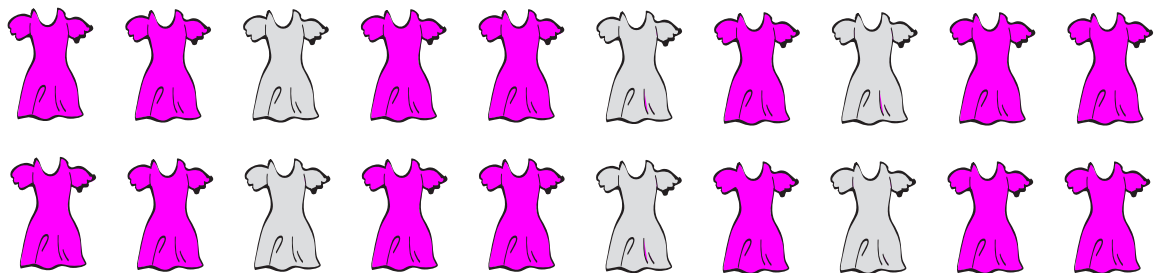There are _____ sets of 5 sweets each.

28 Ring in sets of 10.

There are _____ butterflies altogether.

There are _____ sets of 10 butterflies each.

29 Ring 20 dresses into 2 equal groups.

There are _____ dresses in each group.