

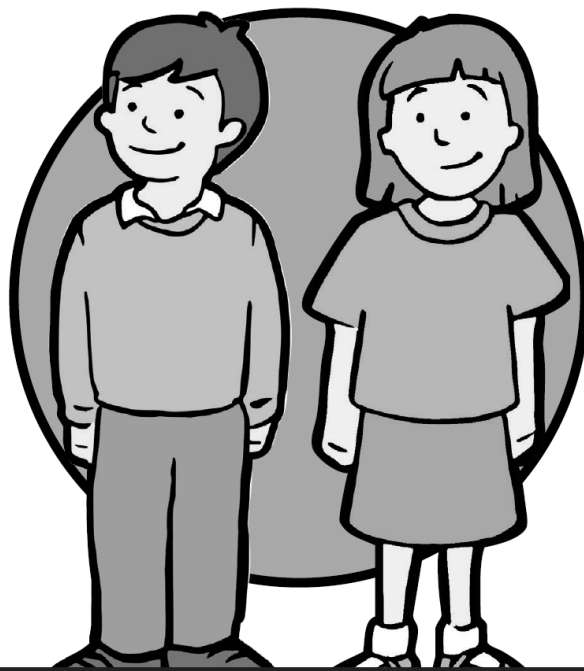
HeadStart

primary

Mastering the Arithmetic Curriculum

Year 1

Part 3



Name:

Acknowledgements:

Author: Laura Sumner

Cover and Page Design: Charlene Pilkington and Kathryn Webster

Illustration: Kathryn Webster

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HeadStart primary

HeadStart Primary Ltd

Elker Lane

Clitheroe

BB7 9HZ

T. 01200 423405

E. info@headstartprimary.com

www.headstartprimary.com

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Guidance

YEAR 1: MASTERING THE ARITHMETIC CURRICULUM

Introduction - National Curriculum

This booklet is Part 3 of a 3-booklet series which covers all the 'matters, skills and processes' specified in the 'Number' aspect of the Mathematics National Curriculum. These 'matters, skills and processes' are often referred to as 'learning objectives' or 'learning outcomes'.

In Year 1, the focus for arithmetic is to develop confidence and mental fluency with whole numbers, counting and place value. Children begin to use this fluency with numbers to solve simple calculations, and to develop their understanding of simple fractions.

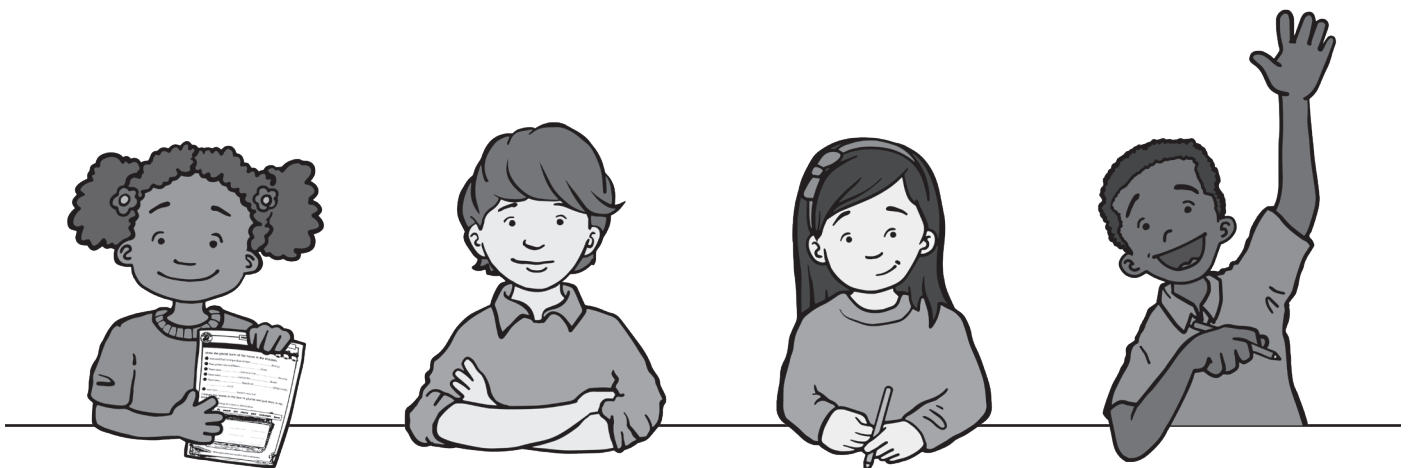
The specific objectives covered in this booklet are identified on the contents page. The 3 booklets in the series cover all the National Curriculum number objectives for Year 1.

Content of the booklet

The content is ideal for reinforcement and consolidation of taught objectives, which can be done in school or as home learning. It can also be used to introduce new National Curriculum objectives which may be unfamiliar to children. In general, the practice examples are arranged so that they become progressively more difficult working down the page.

Using the booklet

The booklet is designed so that children are able to write their answers directly onto the pages. Space is available for working out, but if any additional working out or counting is necessary, an exercise book or paper would be needed.



Contents

Unit 3 - Multiplication and Division

Pages/sections

OBJECTIVES AND DESCRIPTION OF CONTENT

MULTIPLICATION

Pages 1-8

Solve multiplication problems

Section A

Multiplying up to the 5th multiple of 1, 2, 5 and 10, using multiplication vocabulary and aided by pictorial representation

Section B

Multiplying up to the 5th multiple of 1, 2, 5 and 10, using multiplication vocabulary

Section C

Multiplying beyond the 5th multiple of 1, 2, 5 and 10, using multiplication vocabulary

DIVISION

Pages 9-13

Solve division problems

Section A

Dividing up to the 5th multiple of 1, 2, 5 and 10, using division vocabulary and aided by pictorial representation

Section B

Dividing up to the 5th multiple of 1, 2, 5 and 10, using division vocabulary

Section C

Dividing beyond the 5th multiple of 1, 2, 5 and 10, using division vocabulary

MIXED CALCULATIONS

Pages 14-15

Solve multiplication and division problems

Section A

Multiplying and dividing up to the 5th multiple of 1, 2, 5 and 10, using multiplication vocabulary and aided by pictorial representation

Section B

Multiplying and dividing up to the 5th multiple of 1, 2, 5 and 10, using multiplication and division vocabulary

Section C

Multiplying and dividing beyond the 5th multiple of 1, 2, 5 and 10, using multiplication and division vocabulary

DOUBLING

Pages 16-20

Understand doubling

Section A

Doubling a number up to 10, aided by pictorial representation

Section B

Doubling a number up to 20 (includes recognising doubles of numbers up to 20)

Section C

Doubling a number up to 50 (includes recognising doubles of numbers up to 50)

Contents

Unit 4 - Fractions

Pages/sections

OBJECTIVES AND DESCRIPTION OF CONTENT

HALF

Pages 21-25

Find half of a given number

Section A

Finding half of a number up to 20, aided by pictorial representation

Section B

Finding half of a number up to 24

Section C

Finding half of a number up to 100

Pages 26-30

Recognise half of a given number

Section A

Recognising half of a number up to 20, aided by pictorial representation

Section B

Recognising half of a number up to 24

Section C

Recognising half of a number up to 100

QUARTER

Pages 31-35

Find a quarter of a given number

Section A

Finding a quarter of a number up to 40, aided by pictorial representation

Section B

Finding a quarter of a number up to 40, aided by pictorial representation

Section C

Finding a quarter of a number up to 48

Pages 36-40

Recognise a quarter of a given number

Section A

Recognising a quarter of a number up to 40, aided by pictorial representation

Section B

Recognising a quarter of a number up to 40, aided by pictorial representation

Section C

Recognising a quarter of a number up to 48

UNIT 3

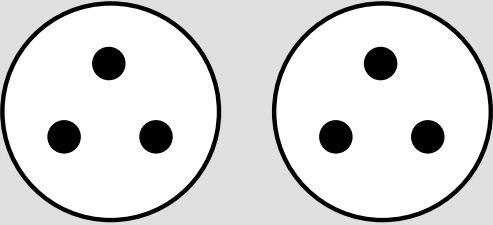
MULTIPLICATION & DIVISION

MULTIPLICATION



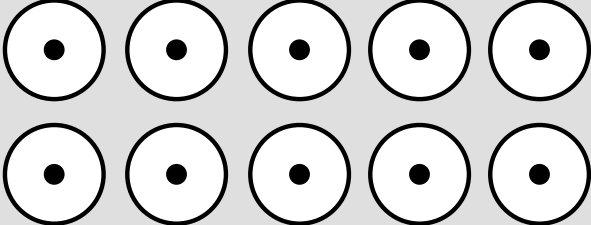
SECTION A

1



2 groups of 3 make

2



10 lots of 1 make

SECTION B

1

2 groups of 2 =

2

5 times 1 =

3

10 times 5 =

4

2 lots of 4 =

SECTION C

1

8 lots of 1 =

2

5 times 6 =

3

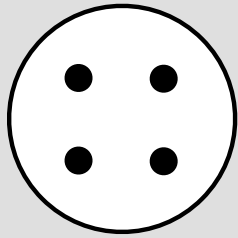
10 times 7 =

4

8 multiplied by 2 =

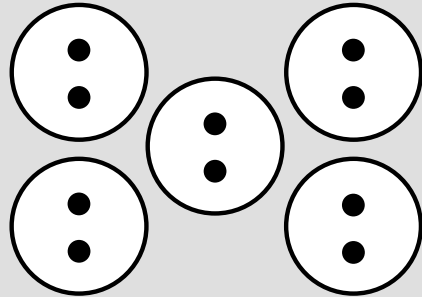
SECTION A

1



1 group of 4 makes

2



5 groups of 2 make

SECTION B

1

1 times 3 =

2

3 multiplied by 5 =

3

10 lots of 2 =

4

5 groups of 5 =

SECTION C

1

5 lots of 8 =

2

6 groups of 2 =

3

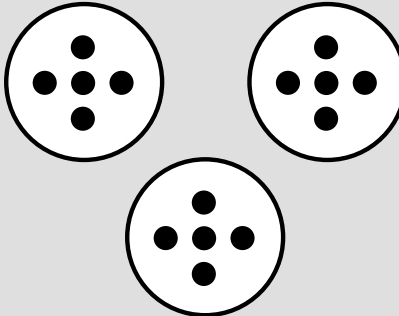
10 times 9 =

4

7 multiplied by 1 =

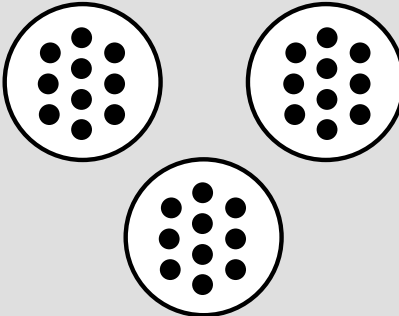
SECTION A

1



3 groups of 5 make

2



3 lots of 10 make

SECTION B

1

4 times 5 =

2

2 lots of 1 =

3

4 multiplied by 10 =

4

5 times 2 =

SECTION C

1

6 times 10 =

2

7 multiplied by 2 =

3

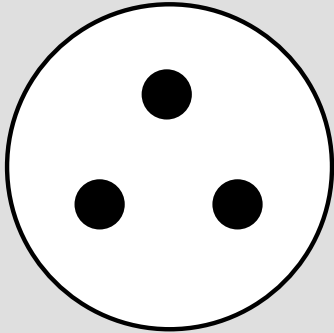
9 lots of 5 =

4

7 times 5 =

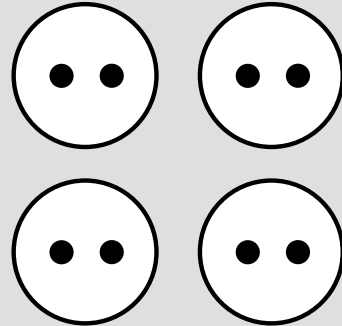
SECTION A

1



1 lot of 3 is

2



4 groups of 2 make

SECTION B

1

3 multiplied by 2 =

2

1 group of 4 =

3

3 lots of 10 =

4

5 times 10 =

SECTION C

1

1 times 6 =

2

9 multiplied by 2 =

3

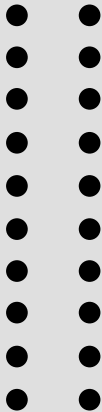
10 times 8 =

4

5 lots of 7 =

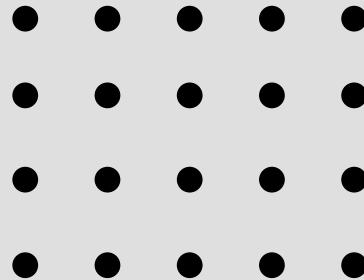
SECTION A

1



10 lots of 2 make

2



4 groups of 5 make

SECTION B

1

2 multiplied by 5 =

2

10 lots of 1 =

3

4 groups of 2 =

4

10 times 4 =

SECTION C

1

2 lots of 6 =

2

1 multiplied by 9 =

3

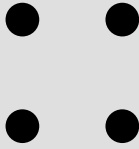
6 times 5 =

4

2 groups of 8 =

SECTION A

1



2 times 2 makes

2



1 lot of 5 makes

SECTION B

1

5 multiplied by 10 =

2

3 lots of 1 =

3

5 groups of 4 =

4

2 lots of 3 =

SECTION C

1

 = 2 times 9

2

1 multiplied by 7 =

3

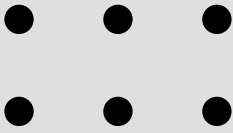
5 lots of 9 =

4

0 multiplied by 10 =

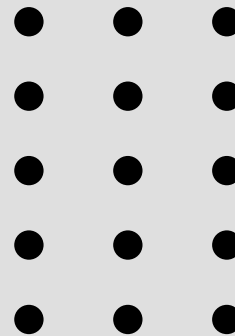
SECTION A

1



3 times 2 equals

2



5 lots of 3 make

SECTION B

1

1 times 5 =

2

4 multiplied by 2 =

3

2 groups of 5 =

4

10 times 4 =

SECTION C

1

10 multiplied by 6 =

2

 = 1 times 7

3

5 times 0 =

4

8 lots of 5 =

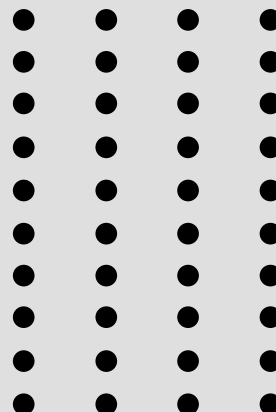
SECTION A

1



4 lots of 1 makes

2



4 times 10 equals

SECTION B

1

2 times 10 =

2

10 multiplied by 3 =

3

3 lots of 5 =

4

= 2 multiplied by 2

SECTION C

1

1 multiplied by 8 =

2

2 multiplied by 0 =

3

= 7 lots of 10

4

10 times 10 =

UNIT 3

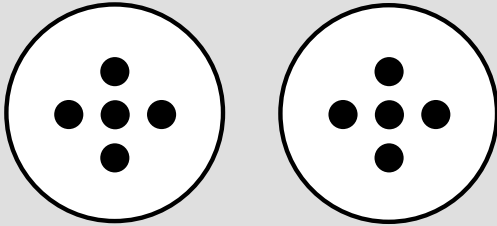
MULTIPLICATION & DIVISION

DIVISION



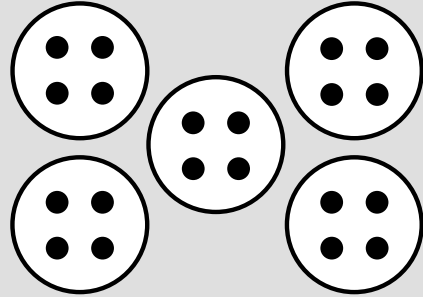
SECTION A

1



10 shared by 2 is

2



20 divided into 5 makes

SECTION B

1

10 divided by 2 =

2

20 shared by 10 =

3

10 divided into 5 =

4

8 shared by 2 =

SECTION C

1

16 divided into 2 =

2

40 shared by 5 =

3

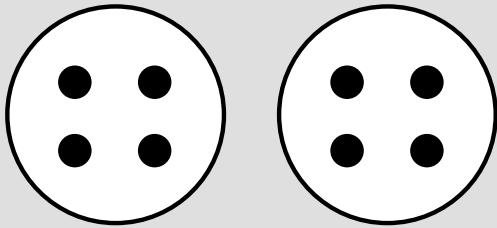
10 divided by 1 =

4

90 shared into 10 =

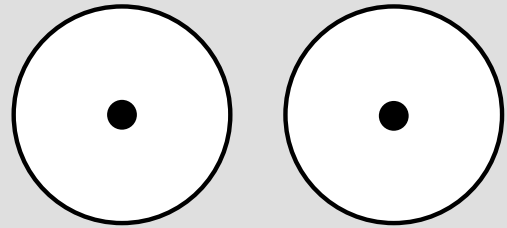
SECTION A

1



8 divided into 2 makes

2



2 shared by 2 is

SECTION B

1

15 divided by 5 =

2

50 shared into 10 =

3

6 shared by 2 =

4

40 divided by 10 =

SECTION C

1

20 shared by 2 =

2

70 shared into 10 =

3

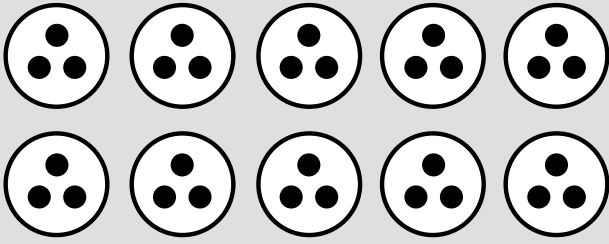
30 divided by 5 =

4

9 divided by 1 =

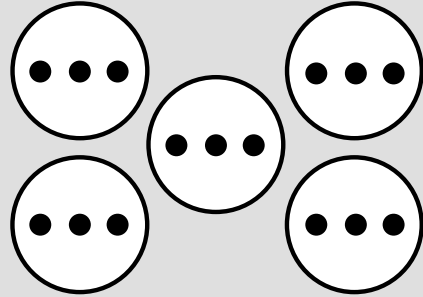
SECTION A

1



30 shared into 10 makes

2



15 divided by 5 is

SECTION B

1

2 divided by 2 =

2

20 shared by 5 =

3

4 shared into 2 =

4

10 shared by 10 =

SECTION C

1

14 divided by 2 =

2

50 shared into 5 =

3

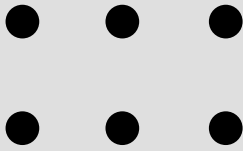
60 divided into 10 =

4

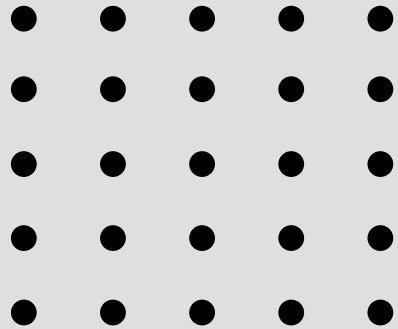
45 shared by 5 =

SECTION A

1

6 divided by 2 is

2

25 shared by 5 is

SECTION B

1

10 shared by 2 =

2

10 shared by 5 =

3

5 divided into 5 =

4

30 shared by 10 =

SECTION C

1

8 divided by 1 =

2

12 shared by 2 =

3

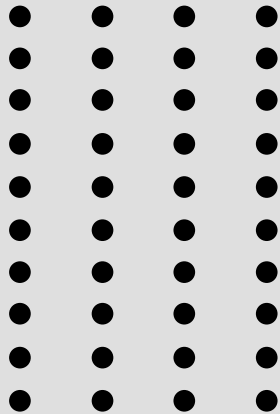
80 divided into 10 =

4

 = 35 shared into 5

SECTION A

1

40 shared by 10 is

2

5 divided by 5 is

SECTION B

1

15 shared into 5 =

2

20 divided by 5 =

3

40 shared by 10 =

4

 = 4 divided by 2

SECTION C

1

7 divided by 1 =

2

18 shared into 2 =

3

100 shared by 10 =

4

 = 40 divided by 5

UNIT 3

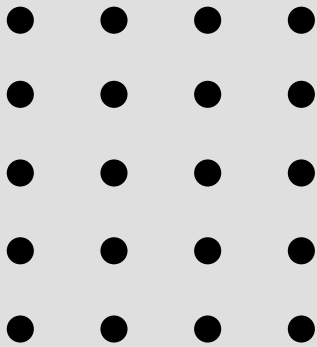
MULTIPLICATION & DIVISION

MIXED CALCULATIONS



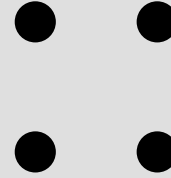
SECTION A

1



5 lots of 4 make

2



4 divided by 2 =

SECTION B

1

8 divided by 2 =

2

5 groups of 5 =

3

 = 40 shared into 10

4

3 times 2 =

SECTION C

1

6 lots of 5 =

2

2 multiplied by 8 =

3

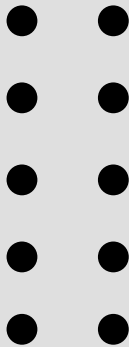
6 divided by 1 =

4

 = 70 shared by 10

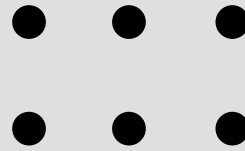
SECTION A

1



$$10 \text{ shared by } 2 = \boxed{}$$

2



$$2 \text{ groups of } 3 \text{ make } \boxed{}$$

SECTION B

1

$$2 \text{ times } 2 = \boxed{}$$

2

$$5 \text{ multiplied by } 10 = \boxed{}$$

3

$$50 \text{ divided by } 10 = \boxed{}$$

4

$$\boxed{} = 10 \text{ divided by } 10$$

SECTION C

1

$$9 \text{ groups of } 10 = \boxed{}$$

2

$$50 \text{ divided by } 5 = \boxed{}$$

3

$$20 \text{ shared by } 2 = \boxed{}$$

4

$$\boxed{} = 1 \text{ times by } 0$$

UNIT 3

MULTIPLICATION & DIVISION


DOUBLING



SECTION A


Double the number of dots to help you find the answer

1



Double 2 is

2



Double 4 is

SECTION B

1 Double 3 is

2 Double 5 is

3 2 is double

4 12 is double

SECTION C

1 Double 11 is

2 Double 15 is

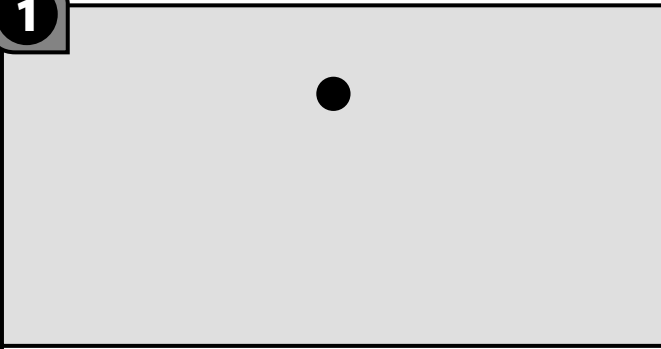
3 40 is double

4 24 is double

SECTION A

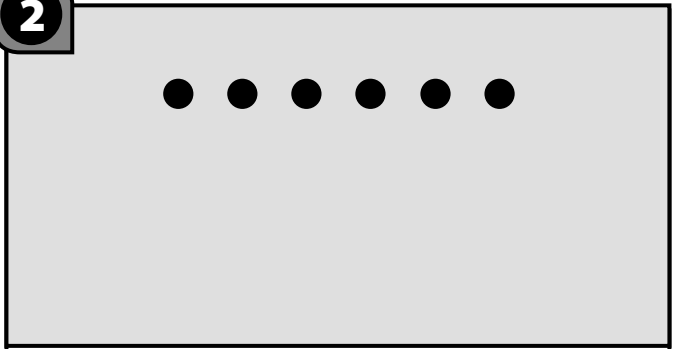
Double the number of dots to help you find the answer

1



Double 1 is

2



Double 6 is

SECTION B

1

Double 2 is

2

Double 7 is

3

8 is double

4

18 is double

SECTION C

1

Double 14 is

2

Double 30 is

3

22 is double

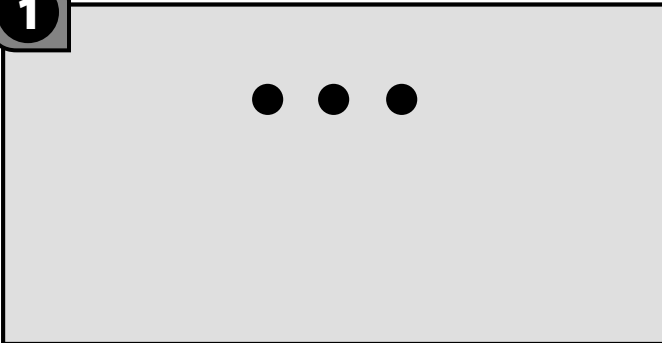
4

32 is double

SECTION A

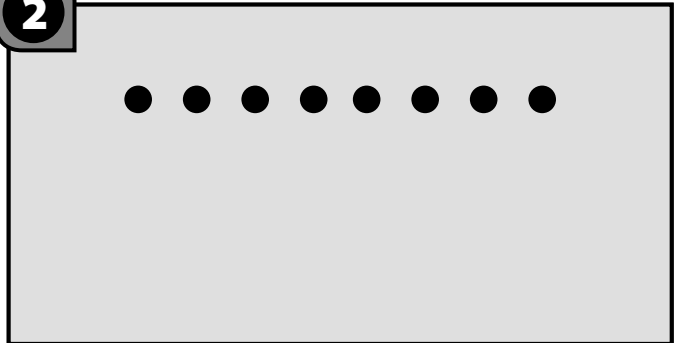
Double the number of dots to help you find the answer

1



Double 3 is

2



Double 8 is

SECTION B

1 Double 1 is

2 Double 10 is

3 4 is double

4 14 is double

SECTION C

1 Double 12 is

2 Double 18 is

3 80 is double

4 26 is double

SECTION A

Double the number of dots to help you find the answer

1

Double 5 is

2

Double 10 is

SECTION B

1

Double 4 is

2

Double 9 is

3

10 is double

4

16 is double

SECTION C

1

Double 16 is

2

Double 50 is

3

28 is double


4

36 is double

SECTION A


Double the number of dots to help you find the answer

1



Double 7 is

2



Double 9 is

SECTION B

1 Double 6 is

2 Double 8 is

3 6 is double

4 20 is double

SECTION C

1 Double 13 is

2 Double 17 is

3 28 is double

4 38 is double

UNIT 4

FRACTIONS

HALF



SECTION A

Circle half of the dots to help you find the answer

1

Half of 10 is

2

Half of 16 is

SECTION B

1

Half of 4 is

2

Half of 6 is

3

Half of 20 is

4

Half of 12 is

SECTION C

1

Half of 34 is

2

Half of 60 is

3

Half of 70 is

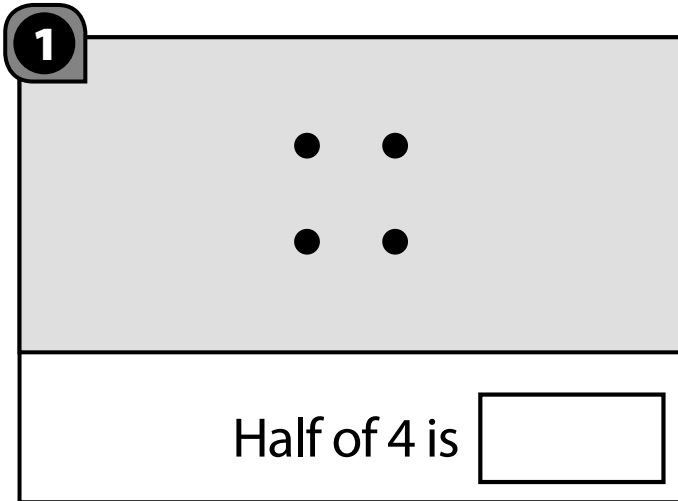
4

Half of 42 is

SECTION A

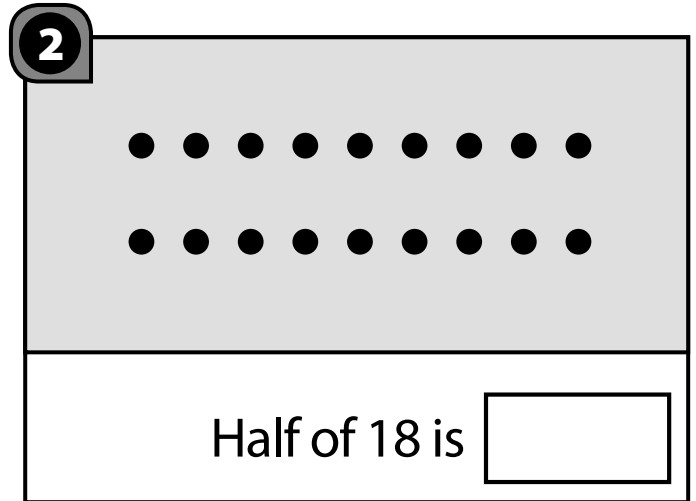
Circle half of the dots to help you find the answer

1



Half of 4 is

2



Half of 18 is

SECTION B

1

Half of 8 is

2

Half of 16 is

3

Half of 10 is

4

Half of 24 is

SECTION C

1

Half of 28 is

2

Half of 80 is

3

Half of 50 is

4

Half of 44 is

SECTION A

Circle half of the dots to help you find the answer

1

Half of 6 is

2

Half of 14 is

SECTION B

1

Half of 2 is

2

Half of 16 is

3

Half of 20 is

4

Half of 18 is

SECTION C

1

Half of 30 is

2

Half of 36 is

3

Half of 100 is

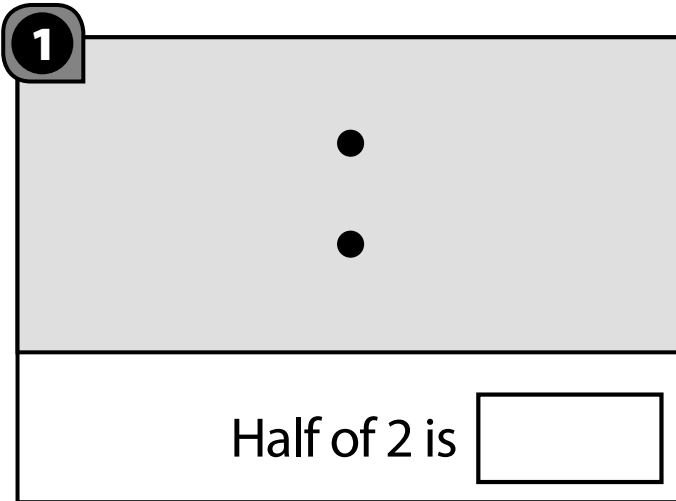
4

Half of 46 is

SECTION A

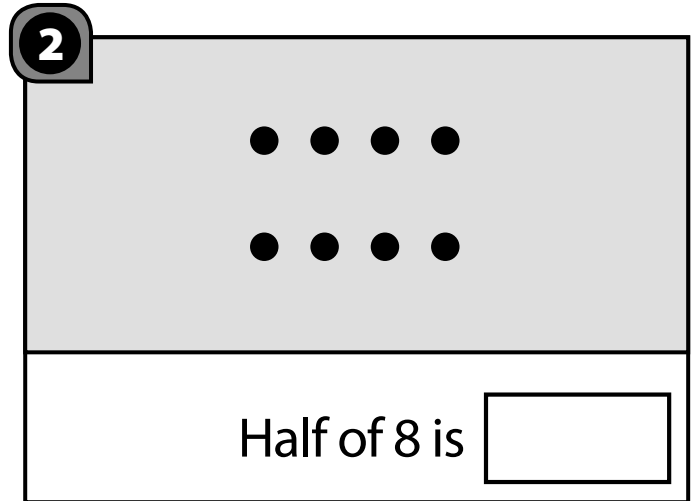
Circle half of the dots to help you find the answer

1



Half of 2 is

2



Half of 8 is

SECTION B

1 is half of 4

2 is half of 10

3 is half of 14

4 is half of 24

SECTION C

1 Half of 26 is

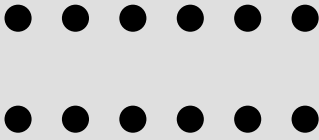
2 Half of 32 is

3 is half of 40

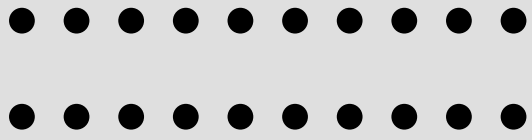
4 is half of 60

SECTION A

Circle half of the dots to help you find the answer

1

Half of 12 is

2

Half of 20 is

SECTION B**1** is half of 14**2** is half of 2**3** is half of 8**4** is half of 18**SECTION C****1**

Half of 38 is

2

Half of 34 is

3 is half of 90**4** is half of 48

SECTION A

1

●	●	●	●

4 is half of

2

●	●	●	●	●	●

6 is half of

SECTION B

1

1 is half of

2

5 is half of

3

9 is half of

4

11 is half of

SECTION C

1

15 is half of

2

20 is half of

3

23 is half of

4

28 is half of

SECTION A

1

	1 is half of <input style="width: 100px; height: 30px;" type="text"/>
---	---

2

	5 is half of <input style="width: 100px; height: 30px;" type="text"/>
---	---

SECTION B

1

3 is half of

2

7 is half of

3

10 is half of

4

2 is half of

SECTION C

1

13 is half of

2

18 is half of

3

25 is half of

4

50 is half of

SECTION A

1

●	●	●

3 is half of

2

●	●	●	●	●	●	●	●	●	●

10 is half of

SECTION B

1

4 is half of

2

8 is half of

3

6 is half of

4

12 is half of

SECTION C

1

16 is half of

2

24 is half of

3

40 is half of

4

27 is half of

SECTION A

1

●	●

2 is half of

2

●	●	●	●	●	●	●	●	●

9 is half of

SECTION B

1 Half of is 5

2 Half of is 11

3 Half of is 10

4 Half of is 7

SECTION C

1 14 is half of

2 19 is half of

3 Half of is 30

4 Half of is 22

SECTION A

1

●	●	●	●	●	●	●	●

8 is half of

2

●	●	●	●	●	●	●

7 is half of

SECTION B

1 Half of is 2

2 Half of is 3

3 Half of is 9

4 Half of is 12

SECTION C

1 17 is half of

2 21 is half of

3 Half of is 26

4 Half of is 29

UNIT 4

FRACTIONS

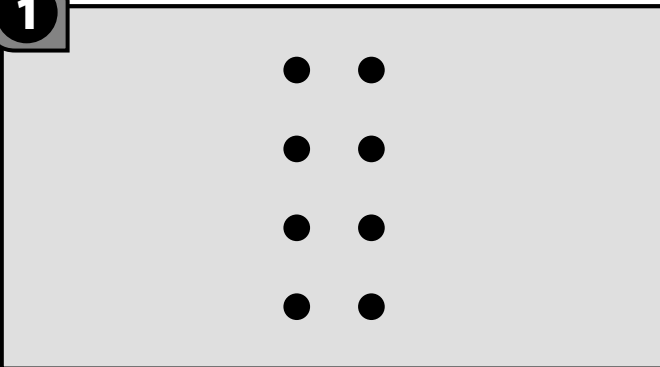
QUARTER



SECTION A

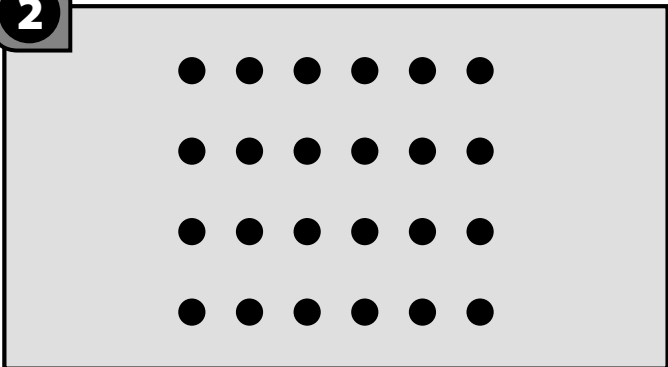
Circle a quarter of the dots and then write the number you have circled

1



A quarter of 8 is

2

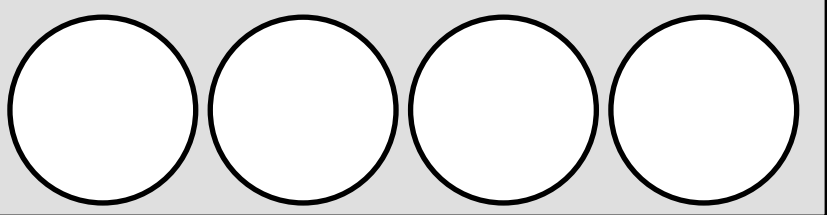


A quarter of 24 is

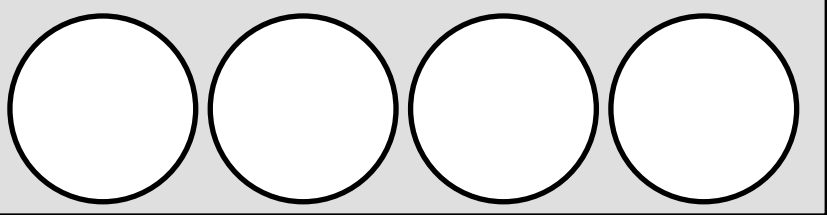
SECTION B

You can use the circles to help you

1 a quarter of 12 is



2 a quarter of 16 is



SECTION C

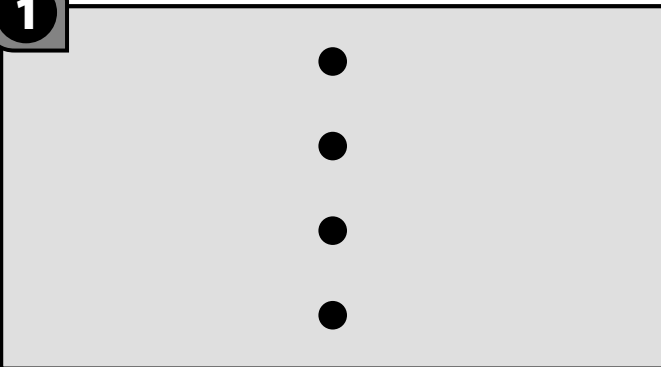
1 A quarter of 4 is

2 A quarter of 20 is

SECTION A

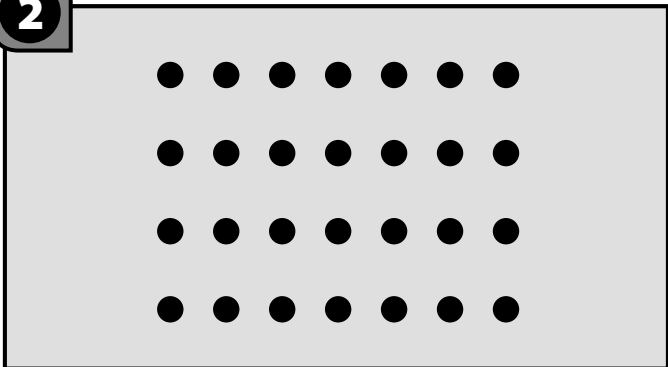
Circle a quarter of the dots and then write the number you have circled

1



A quarter of 4 is

2

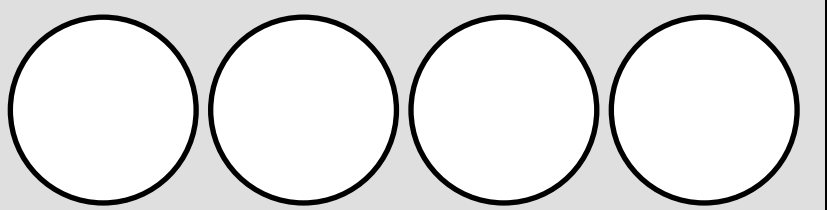


A quarter of 28 is

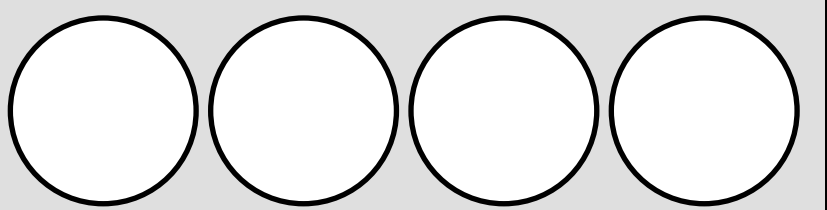
SECTION B

You can use the circles to help you

1 a quarter of 8 is



2 a quarter of 32 is



SECTION C

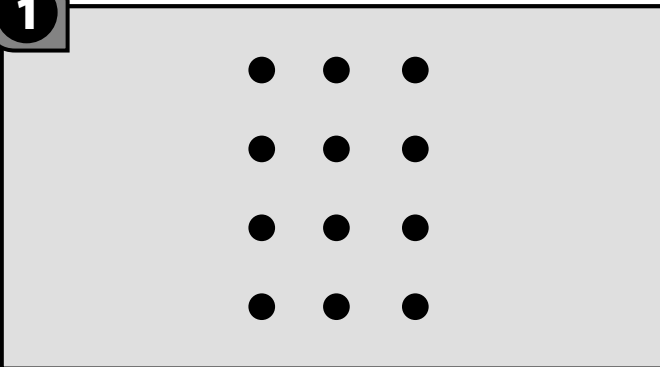
1 A quarter of 12 is

2 A quarter of 24 is

SECTION A

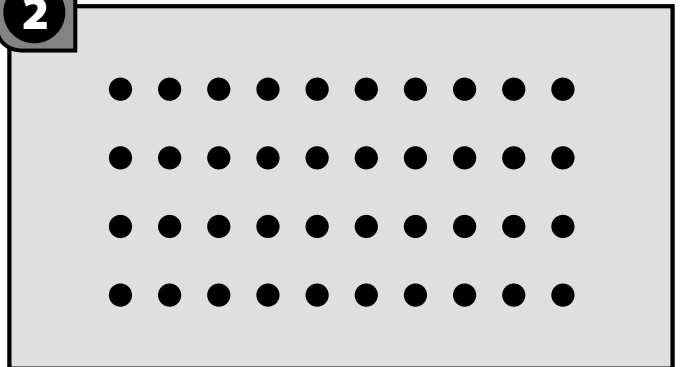
Circle a quarter of the dots and then write the number you have circled

1



A quarter of 12 is

2

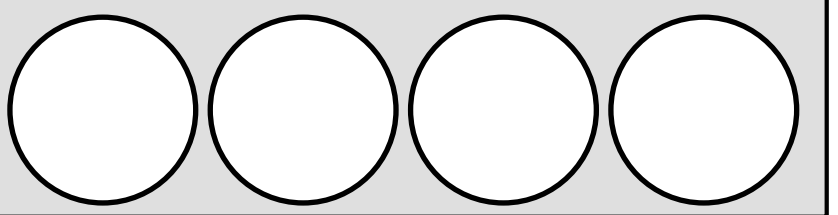


A quarter of 40 is

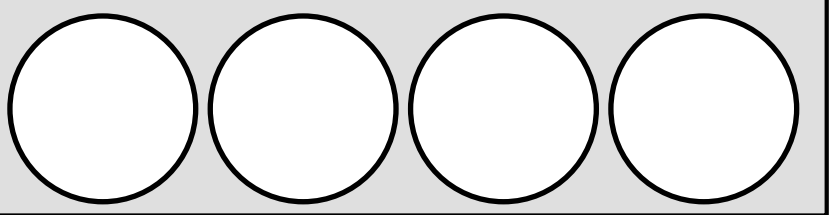
SECTION B

You can use the circles to help you

1 a quarter of 4 is



2 a quarter of 36 is



SECTION C

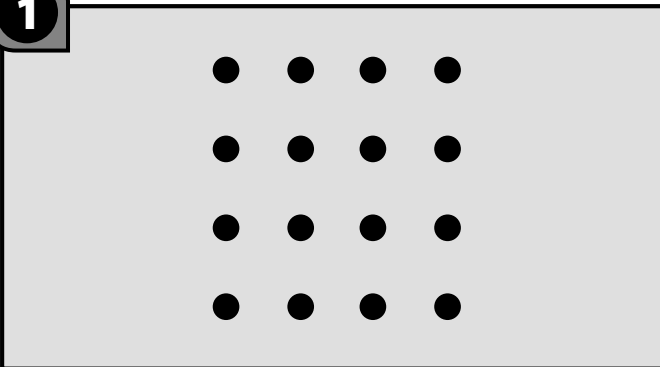
1 A quarter of 8 is

2 A quarter of 16 is

SECTION A

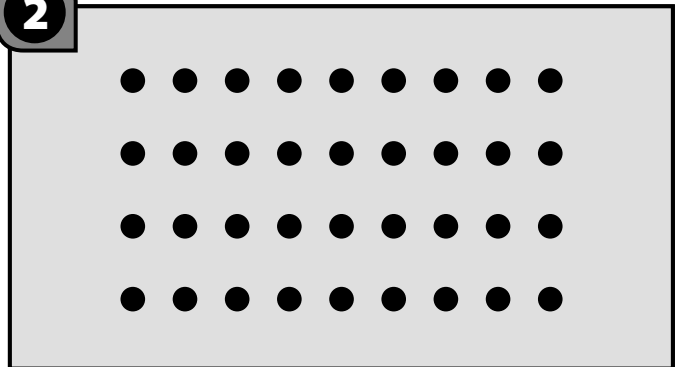
Circle a quarter of the dots and then write the number you have circled

1



A quarter of 16 is

2

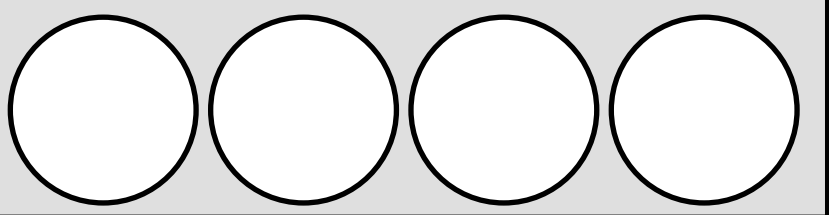


A quarter of 36 is

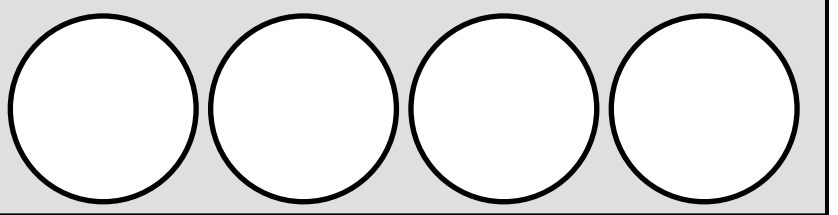
SECTION B

You can use the circles to help you

1 a quarter of 20 is



2 a quarter of 24 is



SECTION C

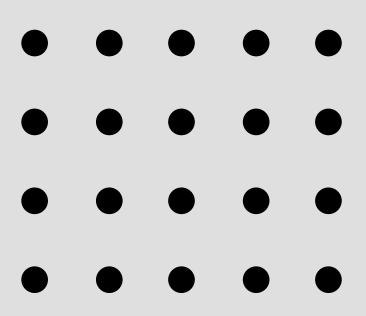
1 A quarter of 40 is

2 A quarter of 28 is

SECTION A

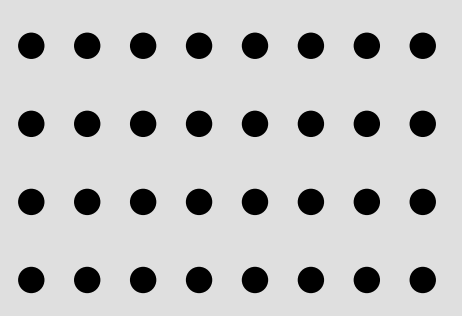
Circle a quarter of the dots and then write the number you have circled

1



A quarter of 20 is

2

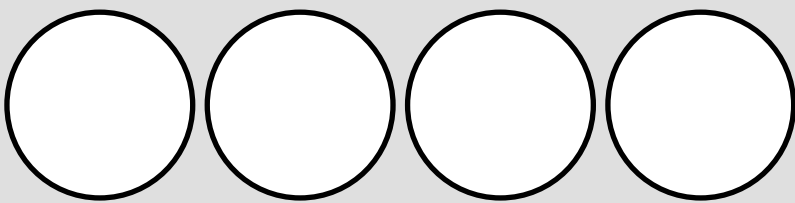


A quarter of 32 is

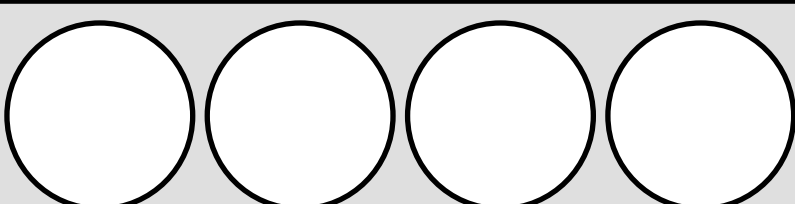
SECTION B

You can use the circles to help you

1 a quarter of 28 is



2 a quarter of 40 is



SECTION C

1 A quarter of 36 is

2 A quarter of 44 is

SECTION A

1

●	●

2 is a quarter of

2

●	●	●	●	●	●

6 is a quarter of

SECTION B

You can use the circles to help you

1

4 is a quarter of

● ● ● ●				
------------------	--	--	--	--

2

10 is a quarter of

● ● ● ● ● ● ●				
---------------------------------	--	--	--	--

SECTION C

1

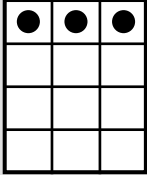
1 is a quarter of

2

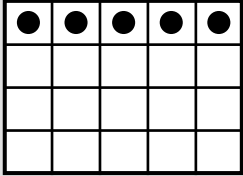
8 is a quarter of

SECTION A

1

	3 is a quarter of <input style="width: 100px; height: 30px;" type="text"/>
---	--

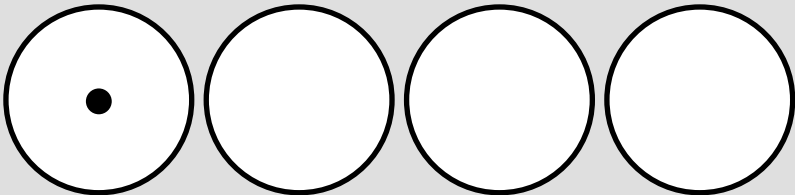
2

	5 is a quarter of <input style="width: 100px; height: 30px;" type="text"/>
---	--

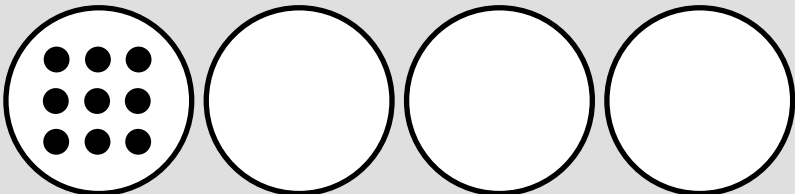
SECTION B

You can use the circles to help you

1

1 is a quarter of <input style="width: 100px; height: 30px;" type="text"/>	
---	---

2

9 is a quarter of <input style="width: 100px; height: 30px;" type="text"/>	
---	--

SECTION C

1


4 is a quarter of

2

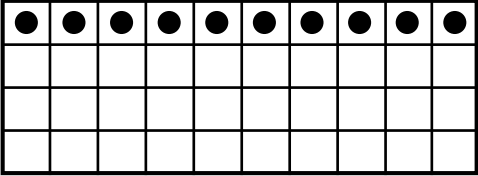
7 is a quarter of

SECTION A

1

	1 is a quarter of <input style="width: 100px; height: 30px;" type="text"/>
---	--

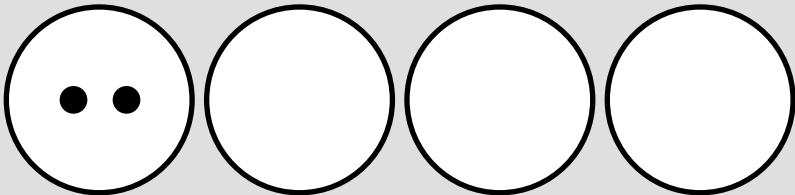
2

	10 is a quarter of <input style="width: 100px; height: 30px;" type="text"/>
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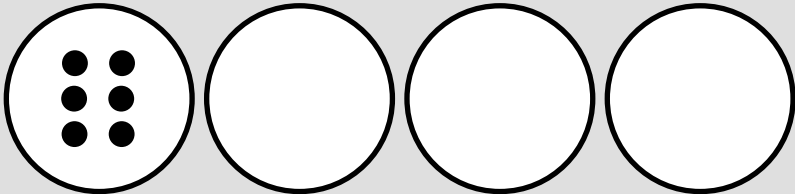
SECTION B

You can use the circles to help you

1

2 is a quarter of <input style="width: 100px; height: 30px;" type="text"/>	
---	---

2

6 is a quarter of <input style="width: 100px; height: 30px;" type="text"/>	
---	--

SECTION C

1

3 is a quarter of

2

12 is a quarter of

SECTION A

1

●	●	●	●

4 is a quarter of

2

●	●	●	●	●	●	●	●

8 is a quarter of

SECTION B

You can use the circles to help you

1

3 is a quarter of

● ● ●			
-------------	--	--	--

2

7 is a quarter of

● ● ● ● ●			
-----------------------	--	--	--

SECTION C

1

2 is a quarter of

2

10 is a quarter of

SECTION A

1

●	●	●	●	●	●	●

7 is a quarter of

2

●	●	●	●	●	●	●	●	●

9 is a quarter of

SECTION B

You can use the circles to help you

1

5 is a quarter of

● ● ● ● ●			
-----------------------	--	--	--

2

8 is a quarter of

● ● ● ● ● ● ● ●			
--------------------------------------	--	--	--

SECTION C

1

6 is a quarter of

2

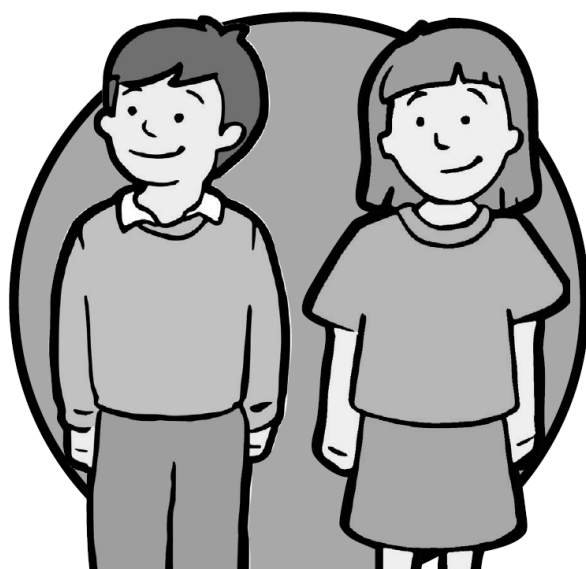
11 is a quarter of

HeadStart
primary

**Mastering the
Arithmetic Curriculum**

Year 1

Part 3



ANSWERS

Answers

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Section C

1) 60 2) 14 3) 45 4) 35

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Section C

1) 6 2) 18 3) 80 4) 35

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Section B

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Section C

1) 60 2) 7 3) 0 4) 40

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Section B

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Section C

1) 8 2) 0 3) 70 4) 100

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Section B

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Section C

1) 8 2) 8 3) 10 4) 9

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Section C

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Section B

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Section C

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Section C

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Section B

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Section C

1) 7 2) 9 3) 10 4) 8

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Section B

1) 4 2) 25 3) 4 4) 6

Section C

1) 30 2) 16 3) 6 4) 7

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Section B

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Section C

1) 90 2) 10 3) 10 4) 0

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Section B

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Section C

1) 22 2) 30 3) 20 4) 12

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1) 28 2) 60 3) 11 4) 16

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Section C

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Section B

1) 4 2) 6 3) 18 4) 24

Section C

1) 34 2) 42 3) 52 4) 58

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1) 2 2) 6

Section B

1) 3 2) 4

Section C

1) 1 2) 5

Page 32

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1) 1 2) 7

Section B

1) 2 2) 8

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Section B

1) 1 2) 9

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