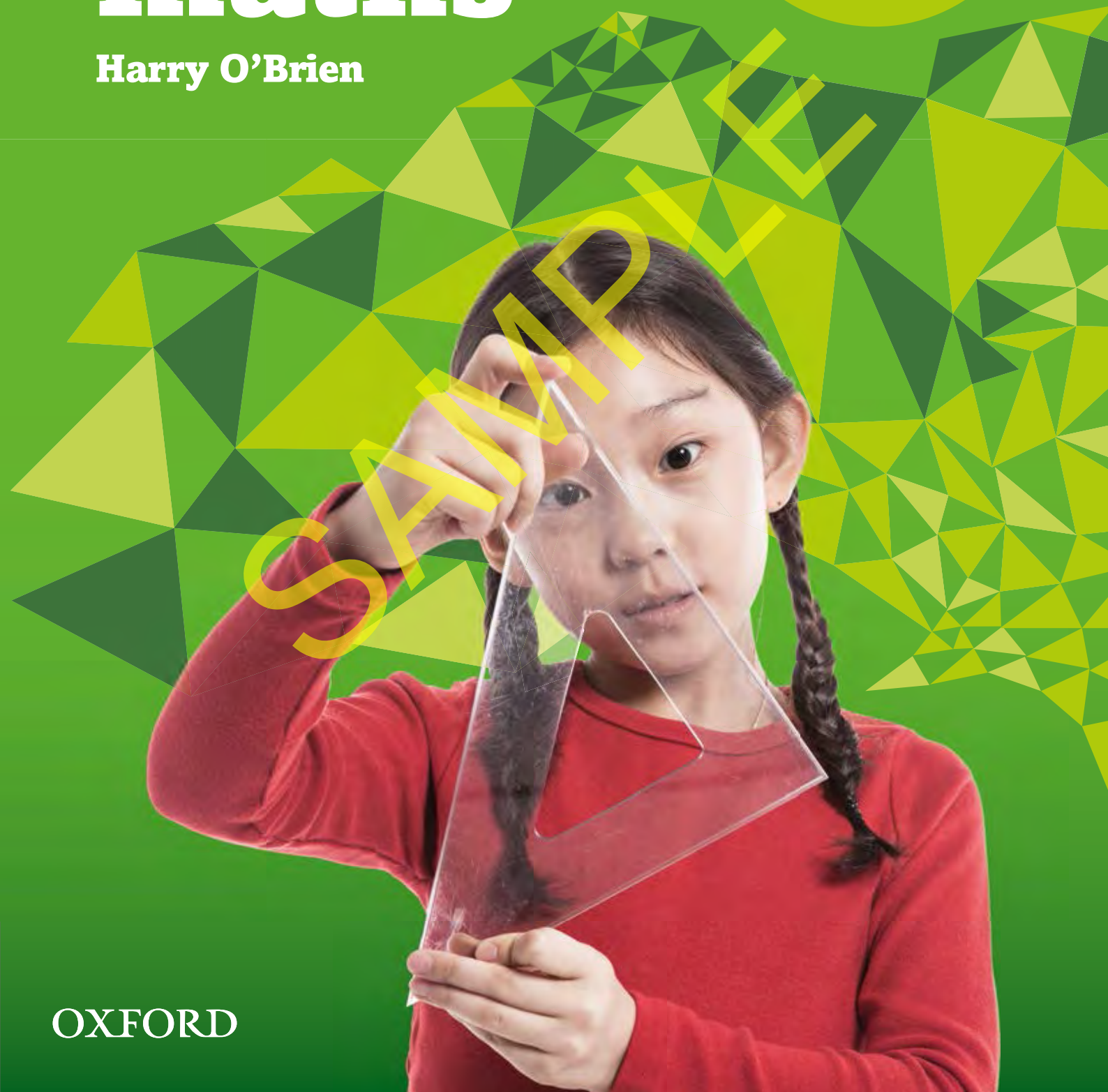
Fourth Edition

Advanced primary maths 4

Harry O'Brien



OXFORD

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Addition strategies

Jump strategy

1 Add the following numbers by adding the tens part of the second number before adding the ones part.

a	36	+	23	=		g	167	+	21	=	
b	47	+	12	=		h	235	+	34	=	
c	33	+	46	=		i	654	+	28	=	
d	64	+	37	=		j	867	+	29	=	
e	45	+	28	=		k	478	+	26	=	
f	67	+	44	=		l	674	+	18	=	

138 + 26 = ?
Think:
138 + 20 + 6 = 164

Split strategy

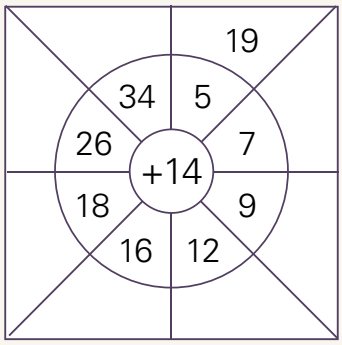
2 Add the following numbers by adding the tens part of both numbers, then the ones part of both numbers before combining them.

a	43	+	26	=		g	132	+	44	=	
b	37	+	52	=		h	147	+	29	=	
c	54	+	25	=		i	169	+	36	=	
d	63	+	29	=		j	276	+	28	=	
e	74	+	88	=		k	357	+	46	=	
f	86	+	47	=		l	469	+	53	=	

37 + 27 = ?
Think:
50 + 14 = 64

3 Complete the addition grids (work clockwise).

a



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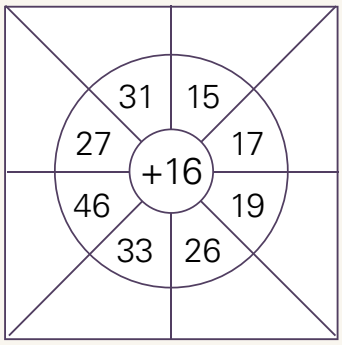
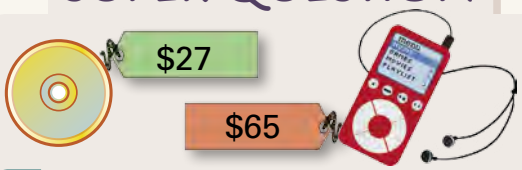


SUPER QUESTION



4 Mark has $189 to spend. If he bought the items above, how much would he have left?

$ _____

Apply place value to partition, rearrange and regroup numbers to at least tens of thousands to assist calculations and solve problems (ACMNA073)

5 George said that it doesn't matter in which order numbers are added. Check to see if George is correct by adding the following pairs of number sentences.

a	6	+	8	=	14	8	+	6	=	14
b	7	+	9	=		9	+	7	=	
c	14	+	6	=		6	+	14	=	
d	17	+	5	=		5	+	17	=	
e	13	+	8	=		8	+	13	=	
f	20	+	25	=		25	+	20	=	
g	18	+	17	=		17	+	18	=	
h	15	+	16	=		16	+	15	=	

6 Maria said that you can also multiply numbers in any order. Check to see if Maria is correct by multiplying the following pairs of numbers.

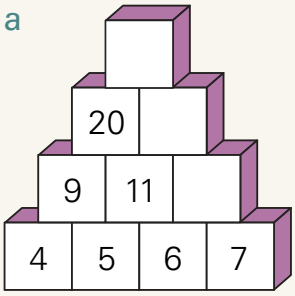
a	6	×	3	=		3	×	6	=	
b	5	×	4	=		4	×	5	=	
c	6	×	5	=		5	×	6	=	
d	8	×	3	=		3	×	8	=	
e	7	×	6	=		6	×	7	=	
f	9	×	6	=		6	×	9	=	

7 Write 2 number sentences for each problem before solving it.

	Problem	Number sentences	Answer
a	John had 13 toy cars and Jim had 12. How many toy cars did they have altogether?	☐ + ☐ = ☐ ☐ + ☐ = ☐	
b	Freda saved $6 every week for 4 weeks. What was the total amount of money Freda saved?	☐ × ☐ = ☐ ☐ × ☐ = ☐	

8 Solve the addition stacks.

a



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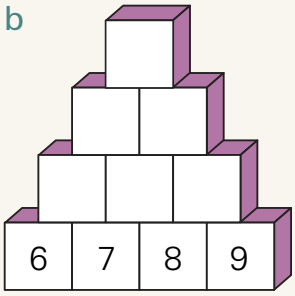

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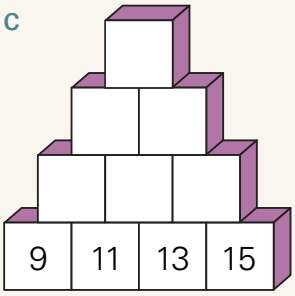

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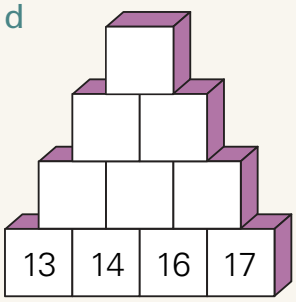


9 Solve the problems.

a	If a ship travels 24 km in one hour, how far will it have travelled in 4 hours?		c	Matthew spent $1.60 at recess and $2.40 at lunch. How much does he have left from $10?	
b	Karen bought a toy for $6.70. She paid for it with a $10 note. How much change did she receive?		d	Phillip had $19 but spent $3.50 on a magazine and $4.50 on a pen. How much does he have left?	

WEEKLY TESTER

10 Kelly and Jackie wanted to buy a netball ring. Kelly has saved $125 towards it and Jackie has saved $80. How much more do they need to save to buy a ring worth $280?

a What has to be found?

b How are you going to find it?

c Working out.

OPEN-ENDED CHALLENGER

11 In a basketball game it is possible to score 1 point, 2 points or 3 points. In a recent game the Tigers played the Redbacks and the score was 46 to 37. Show how the teams may have scored their points by completing the table for each team.

TIGERS 46

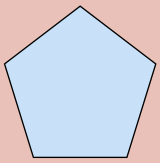
Points	1 Point	2 Points	3 Points
Baskets			
Total			

REDBACKS 37

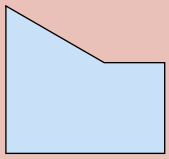
Points	1 Point	2 Points	3 Points
Baskets			
Total			

Apply place value to partition, rearrange and regroup numbers to at least tens of thousands to assist calculations and solve problems (ACMNA073)

A **pentagon** is a shape with 5 straight sides.

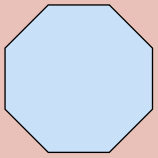


Regular pentagon

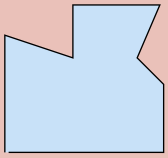


Irregular pentagon

An **octagon** is a shape with 8 straight sides.



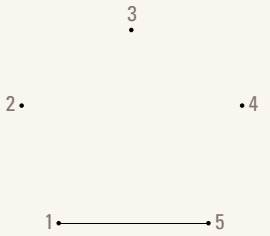
Regular octagon



Irregular octagon

12 Join the dots to form the pentagons, hexagons and octagons.

a



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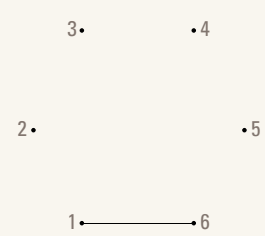

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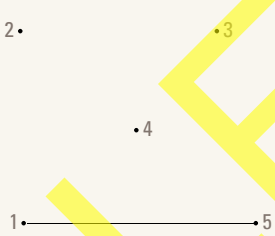

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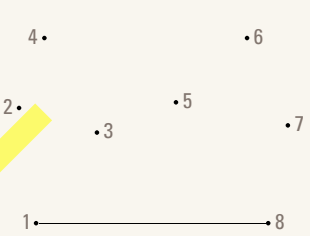
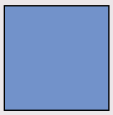
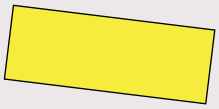
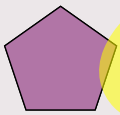
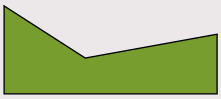
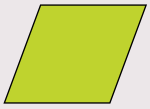
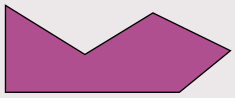
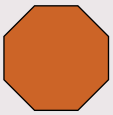


13 Write the name of the shape on each shape, then record the numbers of sides and angles.

	Shape	Sides	Angles
a			
b			
c			
d			

	Shape	Sides	Angles
e			
f			
g			
h			

14 What shape am I?

a I have 4 sides all the same length and 4 right angles. _____

b I have 3 sides and 3 angles. _____

c I have 2 pairs of sides of different lengths and 4 right angles. _____

d I have 5 sides the same length and 5 angles. _____

e I have 8 sides all the same length and 8 angles. _____

f I have 4 sides the same length, 2 acute angles and 2 obtuse angles. _____

DIAGNOSTIC Review 1

PART 1

Complete the algorithms.

a

Hund	Tens	Ones
4	3	6
+ 3	2	7

b

Hund	Tens	Ones
6	5	8
+ 5	3	5

c

Hund	Tens	Ones
9	2	8
– 7	0	2

d

Hund	Tens	Ones
7	9	4
– 5	6	6

Use any strategy to solve these mentally.

e 34 + 43 = ____

f 56 + 37 = ____

g 134 + 27 = ____

h 87 – 35 = ____

i 162 – 35 = ____

PART 2

Complete the grid.

	×	2	4	3	5	7	6	8
a	3							
b	4							
c	7							
d	8							

Complete the extended facts.

e 3 × 40 = ____

f 6 × 70 = ____

Write all the factors of:

g 16 _____

h 24 _____

PART 3

a Expand the numbers by writing them in the place value grid.

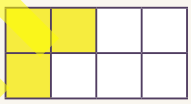
Number	Tens Thou	Thou	Hund	Tens	Ones
4326					
5279					
6380					
24 206					
31 702					

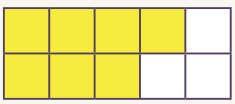
b Write the number two thousand three hundred and twenty-six. ____

c What is the place value of the 3 in the number 6354? _____

PART 4

What fraction is shaded?

a  _____

b  _____

Order the fractions from smallest to largest.

c $\frac{7}{10}$ $\frac{1}{10}$ $\frac{3}{10}$ ____

d $\frac{3}{8}$ $\frac{1}{8}$ $\frac{7}{8}$ ____

e $\frac{1}{5}$ $\frac{5}{10}$ $\frac{1}{10}$ ____

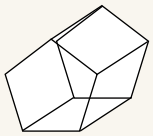
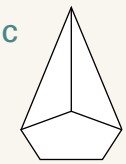
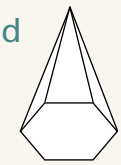
PART 5

Solve the problems.

a	There are 366 boys and 217 girls in the sports club. How many children altogether?	
b	Jane has saved $234 and $137 towards a $557 tablet. How much more must she save to buy it?	

PART 6

Name the prisms and pyramids.

a  b  c  d 

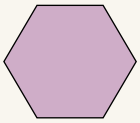
a _____

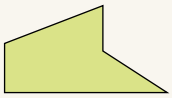
b _____

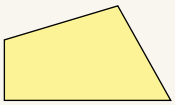
c _____

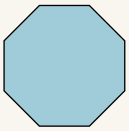
d _____

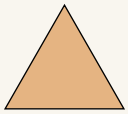
Match the shape with its name.

e 

f 

g 

h 

i 

hexagon
triangle
pentagon
quadrilateral
octagon

PART 7

Put a cross on the parallelograms.

PART 8

What direction from Home are the following?

a Sail _____ c Vincent _____

b Willow _____ d Miami _____

PART 9

Measure the lengths of the pencils.

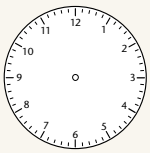
a  ☐ cm

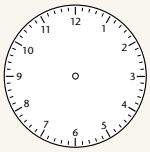
b  ☐ cm

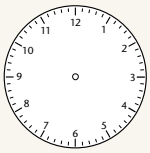
c  ☐ cm

PART 10

Show these times on the digital and analog clocks.

a Half past 7 ☐☐:☐☐ 

b 10 past 9 ☐☐:☐☐ 

c 10 to 9 ☐☐:☐☐ 

Calculate the minutes from:

d 3.05 am to 3.40 am _____

e 8.50 am to 9.47 am _____

f 11.50 am to 1.25 pm _____

PART 11

What is the perimeter of this shape in centimetres?

P = ☐ cm

PART 12

a How many millilitres in 1 litre? ☐

b How many shampoo bottles would fill a 1-litre container? 

☐