Fourth Edition

Advanced primary maths 5

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OXFORD

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Addition and subtraction strategies

Add the hundreds, tens and ones separately.
325 + 133?
Think 300 + 100 plus 20 + 30 plus 5 + 3 equals 458.

1 Use the split strategy to add and subtract these numbers.

a 42 + 35 = _____
b 31 + 54 = _____
c 62 – 32 = _____
d 23 + 45 = _____
e 42 + 54 = _____
f 48 + 26 = _____
g 66 – 34 = _____
h 57 + 28 = _____
i 23 + 35 = _____
j 24 + 67 = _____
k 68 – 47 = _____
l 75 + 36 = _____
m 325 + 133 = _____
n 372 + 125 = _____
o 427 + 132 = _____
p 534 + 354 = _____
q 627 + 252 = _____
r 309 + 490 = _____
s 3378 + 1267 = _____
t 2784 + 1141 = _____
u 1356 + 1277 = _____

2 Use the jump strategy to add and subtract these numbers.

a 26 + 15 = _____
b 35 + 27 = _____
c 46 + 42 = _____
d 35 + 23 = _____
e 48 – 25 = _____
f 58 – 37 = _____
g 157 – 26 = _____
h 368 + 29 = _____
i 278 + 36 = _____
j 427 – 25 = _____
k 132 + 37 = _____
l 356 + 23 = _____
m 448 + 24 = _____
n 137 – 36 = _____
o 346 + 125 = _____
p 757 – 326 = _____
q 485 – 224 = _____
r 297 + 133 = _____

38 + 43?
Think
38 + 40 + 3 = 81

3 Add the numbers mentally using the compensation strategy.

a 24 + 39 = _____
b 36 + 28 = _____
c 54 + 27 = _____
d 47 + 49 = _____
e 47 + 39 = _____
f 27 + 42 = _____
g 53 + 38 = _____
h 36 + 37 = _____
i 47 + 36 = _____
j 126 + 57 = _____
k 336 + 38 = _____
l 242 + 49 = _____
m 1137 + 57 = _____
n 2545 + 27 = _____
o 3276 + 89 = _____

35 + 48?
Think
35 + 50 minus 2

4 Subtract the numbers mentally using the compensation strategy.

a 65 – 29 = _____
b 72 – 39 = _____
c 85 – 38 = _____
d 73 – 49 = _____
e 86 – 48 = _____
f 83 – 49 = _____
g 92 – 78 = _____
h 64 – 37 = _____
i 672 – 37 = _____
j 569 – 28 = _____
k 496 – 37 = _____
l 285 – 57 = _____
m 2174 – 36 = _____
n 2283 – 58 = _____
o 3684 – 69 = _____

64 – 29?
Think
64 – 30 + 1

SUPER QUESTION

5 On the first day of a special interstate delivery Sam drove 568 km and on the second day he drove 632 km. How much did he charge to do his delivery if his rate was 50c per kilometre?

$_____

Use efficient mental and written strategies and apply appropriate digital technologies to solve problems (ACMNA291)

6 Write the numbers on the place value chart. The first one has been done for you.

	Number	Millions	Hundred thousands	Ten thousands	Thousands	Hundreds	Tens	Ones
a	37 685			3	7	6	8	5
b	127 903							
c	2 291 376							
d	3 754 264							
e	4 390 235							
f	5 437 294							

7 Order the numbers from smallest to largest.

a	1234	4321	3241	4231	
b	23 485	21 099	27 305	35 674	
c	37 296	22 899	45 809	42 013	
d	126 354	154 876	119 999	149 887	
e	1 251 362	1 255 999	1 212 898	1 221 889	
f	3 112 553	3 112 335	4 121 553	4 121 335	
g	5 135 762	5 153 767	5 513 762	5 351 762	

8 Arrange the cards to make the largest number then the smallest number using all 6 digits.

	Cards	Largest number	Smallest number
a	3 5 7 2 4 6		
b	8 4 1 5 7 9		
c	4 2 9 6 8 3		

9 Write the numbers in words.

a 4287 _____

b 24 370 _____

c 3 125 307 _____

d 4 236 000 _____

10 Complete the magic squares.

a

14		12
	15	
		16

b

18	23	16
	19	

c

	23	
26	19	24

d

24		
	25	
28		26

11 Solve the problems.

a	Ji's cricket team scored 379 runs in the first innings and 256 runs in the second innings. What was its total score for the game?		e	James saved $36 per week for 8 weeks. How much more does he need to buy a bike worth $400?	
b	A farmer planted 78 trees in 6 paddocks. If the trees were shared equally, how many would there be in each paddock?		f	Mr Kent planted 96 flowers in a large garden bed but only $\frac{3}{4}$ of them sprouted. How many flowers sprouted?	
c	Jackie's team scored 189 goals this year and Lauren's team scored 139. How many goals did they score altogether?		g	There are 113 children in the 4 classes of Year 5. How many are there in 5T if 5K has 30, 5S has 27 and 5R has 29?	
d	Mr Harris bought 7 tins of beans at $0.95 per can. How much change did he get from $10.00?		h	Trent had $1000 but spent $376 on a TV and $247 on a bike. How much money does Trent have left?	

WEEKLY TESTER

12 Mr Bean wanted a new car priced at $35 267 but he couldn't afford it as he only had $30 967. He took the following options off the car and its price to see if he could afford the same car.

- Cruise control $1260
- Mag wheels $ 970
- CD player $ 767
- Leather upholstery $1450

Could Mr Bean now purchase the car? _____

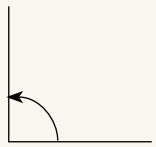
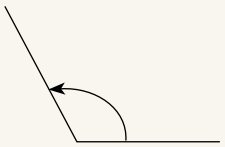
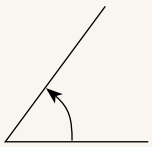
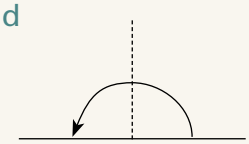
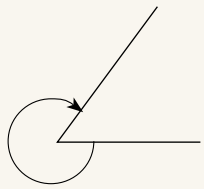
OPEN-ENDED CHALLENGER

13 Three consecutive whole numbers add to give a total between 180 and 210. What are all the possible answers?

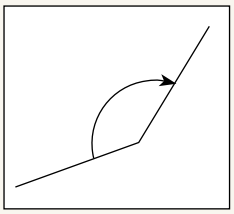
14 Three consecutive numbers add to give 252. What are they? _____

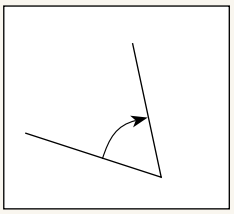
Use efficient mental and written strategies and apply appropriate digital technologies to solve problems (ACMNA291)

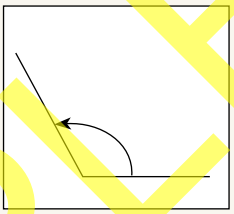
Angles are classified according to the amount of turn between the 2 arms.

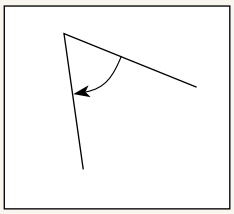
Right angle	Obtuse angle	Acute angle	Straight angle	Reflex angle
a 	b 	c 	d 	e 
Square corner—90°	Larger than a right angle—Greater than 90° but less than 180°	Smaller than a right angle—Less than 90°	Can be made from 2 right angles—180°	Larger than a straight angle—Greater than 180°

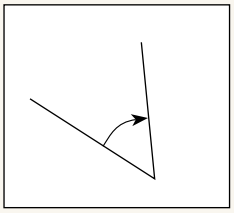
15 Label the angles either right angle, obtuse, acute, reflex or straight.

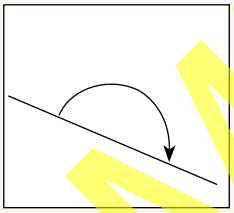
a 

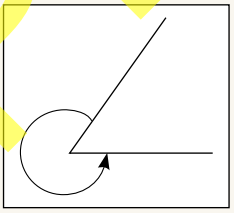
d 

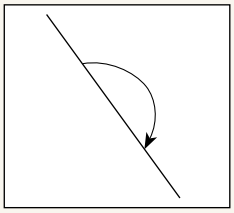
g 

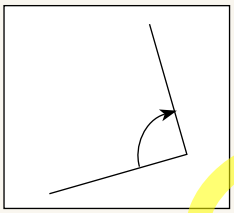
j 

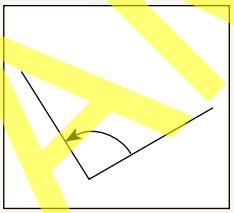
b 

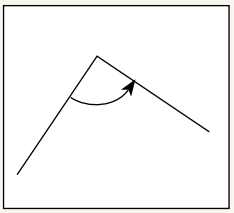
e 

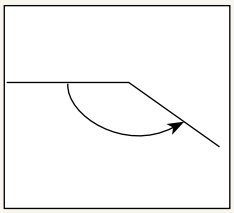
h 

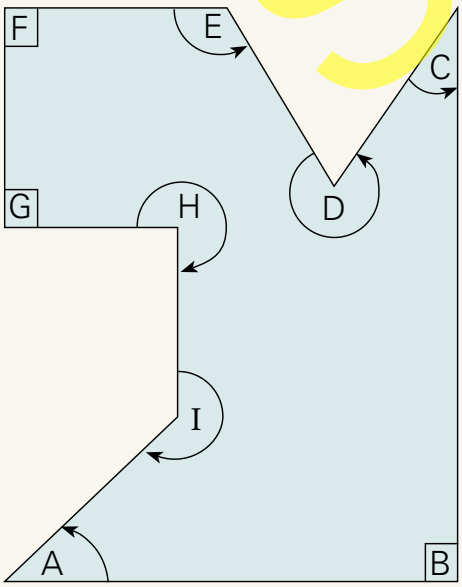
k 

c 

f 

i 

l 



16 Answer the questions about the irregular nonagon.

a Which angles are right angles? _____

b Which angles are acute angles? _____

c Which angles are obtuse angles? _____

d Which angles are reflex angles? _____

e Which angle is the smallest acute angle? _____

f Which angle is the largest reflex angle? _____

17 Find an example of each angle in your school.

Acute	
Obtuse	

DIAGNOSTIC Review 1

PART 1

a Make the largest number you can from the digits 4, 2, 5, 6, 3, 1 ☐

b Write 367 206 in words. _____

_____

_____

_____

c Arrange the following numbers in order of size from the smallest to largest.

359 726	45 265	359 276	359 266
☐	☐	☐	☐

What is the place value of the bold numeral in each number?

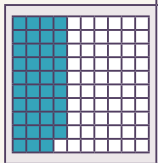
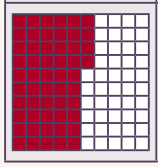
d 37**8**06 _____

e **3**5 264 _____

f 4**9**321 _____

PART 2

Record a decimal for each hundredths grid.

		Ones	Tenths	Hundredths
a		0		
b				

Write **true** or **false:**

c $\frac{1}{2} = \frac{3}{6}$ _____ f $\frac{1}{4} = \frac{2}{8}$ _____

d $\frac{1}{4} > \frac{1}{8}$ _____ g $\frac{2}{6} = \frac{1}{3}$ _____

e $\frac{1}{2} > \frac{7}{8}$ _____ h $\frac{1}{3} > \frac{7}{12}$ _____

Change to mixed numerals.

i $\frac{5}{4} =$ _____ l $\frac{9}{8} =$ _____

j $\frac{4}{3} =$ _____ m $\frac{13}{8} =$ _____

k $\frac{5}{3} =$ _____ n $\frac{17}{6} =$ _____

PART 3

Write **prime** or **composite** after each number.

a 49 _____

b 53 _____

c 51 _____

PART 4

a $217 \times 3 =$ _____

b $342 \times 6 =$ _____

c $387 \times 8 =$ _____

d $23424 + 54837 =$ _____

e $375459 + 163615 =$ _____

f $8823 - 6547 =$ _____

g $68584 - 7806 =$ _____

h $7\overline{)88}$

i $7\overline{)999}$

j $6\overline{)792}$

k 4384 tickets were sold for the concert. If 3272 people have already arrived, how many more are still expected to arrive?

_____ people still to arrive

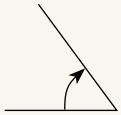
l Bread costs $1.75, milk $1.15, butter $1.95 and eggs $1.65. If you purchased all 4 items, how much change would you get from $10.00? $ _____

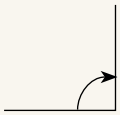
m Samuel had 1374 marbles in his marble bag which had a hole in it. If 236 fell out, and he gave away 109, how many marbles were left? _____

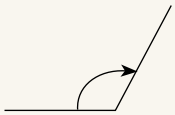
n John saved $9.55 per month for 6 months and his mother gave him $9.70. How much more does he need to buy a game worth $100? $ _____

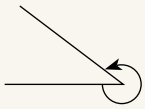
PART 5

Use the words *acute*, *obtuse*, *right*, *reflex* or *straight* to name the angles.

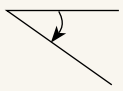
a  _____

b  _____

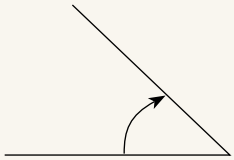
c  _____

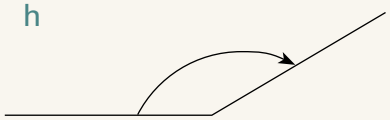
d  _____

e  _____

f  _____

Measure these angles.

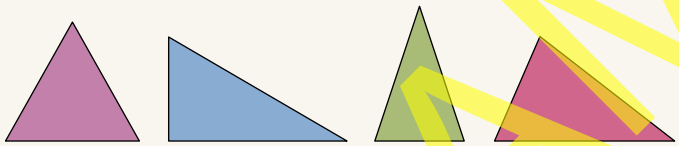
g 

h 

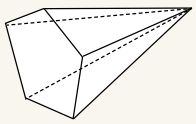
PART 6

Draw a line to name the triangles.

isosceles	equilateral	scalene	right angle



PART 7



a Name this object.

_____

b How many faces? _____

c How many vertices? _____

d How many edges? _____

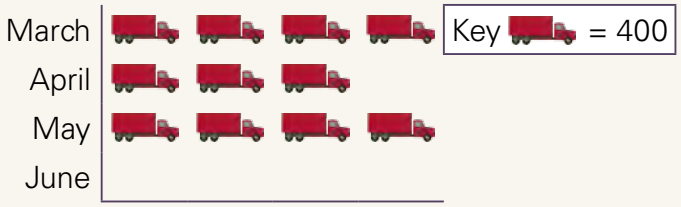
PART 8

Sketch these objects, showing dotted lines for hidden edges.

triangular prism	square pyramid

PART 9

Trucks leaving depot

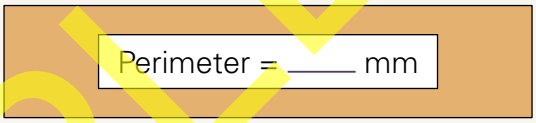


a How many trucks left the depot in April? ☐

b Complete the graph by adding 1400 trucks leaving the depot in June.

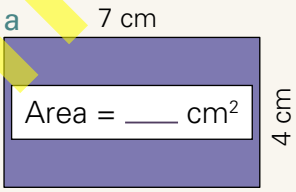
PART 10

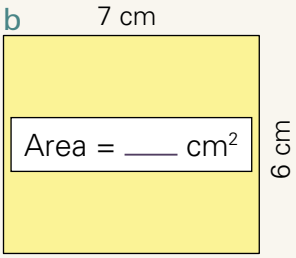
Measure the perimeter in millimetres.

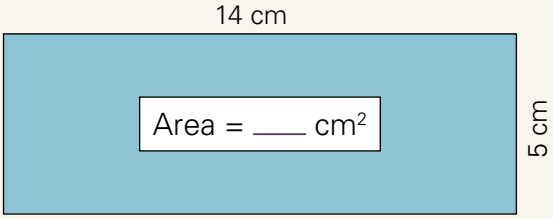


PART 11

Calculate the area of these shapes.

a 

b 

c 

PART 12

a How many centimetres in 2.5 m? _____

b How many millimetres in $3\frac{1}{2}$ cm? _____

c How many metres in 4.5 km? _____

Use decimal notation to record these measurements in kilometres.

d 3746 m = _____ km

e 8079 m = _____ km

f 27 359 m = _____ km