1 Janet created a number pattern.

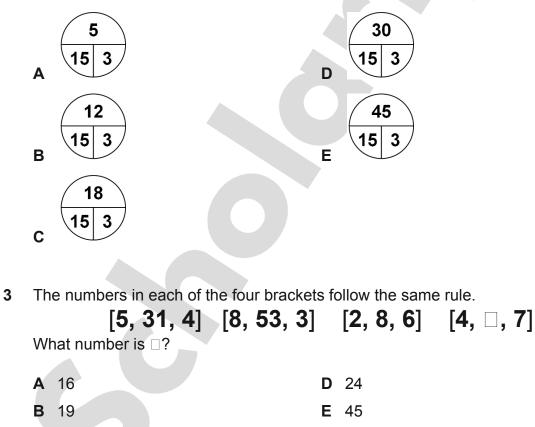
The first six numbers in Janet's number pattern are shown below.

	1	5	9	13	17	<mark>2</mark> 1
What numbe	er comes I	next in Ja	net's num	iber pattei	rn?	
A 25				D 28		
B 26				E 29		
C 27						

2 The numbers in the four circles below follow the same pattern.

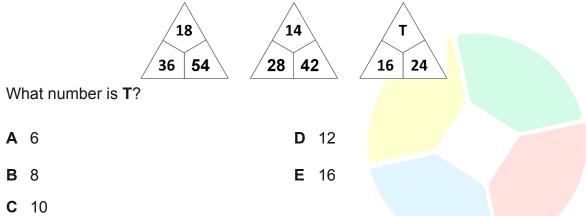
2	12	56	120		
12	34	78	10 12		

Which of these circles follows the same pattern of numbers as the four given circles?



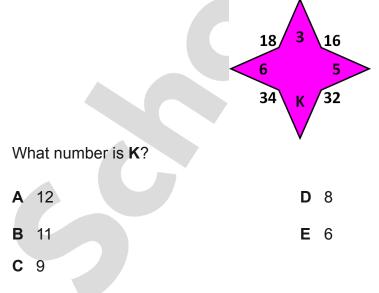
C 21

The numbers in the three triangles below follow the same pattern. 4



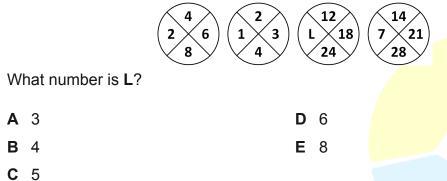
The numbers in the four squares below follow the same pattern. 5

	3	10		5	12		7	14		8	S
	20	13		24	17		28	21		30	23
What numb	er is S	?								~	
A 10						D	15				
B 12						E	16				
C 13											
The numbers in the figure below follow a pattern.											

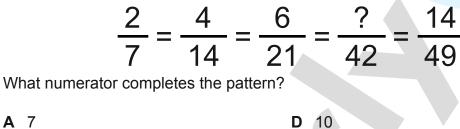


6

7 The numbers in the four circles below follow the same pattern.



8 The fractions below show a pattern of equivalent fractions.



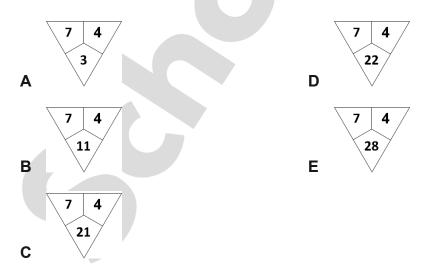
- A
 7
 D
 10

 B
 8
 E
 12
- **C** 9
- **9** The numbers in the four triangles below follow the same pattern.

 3
 2
 6
 4
 9
 5
 8
 3

 7
 14
 28
 35

Which triangle shows the same pattern of numbers as the four given triangles?



10 The numbers in the four squares below follow the same pattern.

	6	9	4	7		9	12		11	14	
	13	18	9	14		С	24		23	28	
What numb	er is C	??		•				_			
A 19					D	15					
B 18					Е	13					
C 16											

11 Andrea created a number pattern.

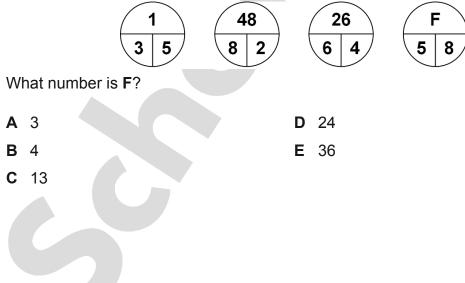
The first five numbers in Andrea's number pattern are shown below.

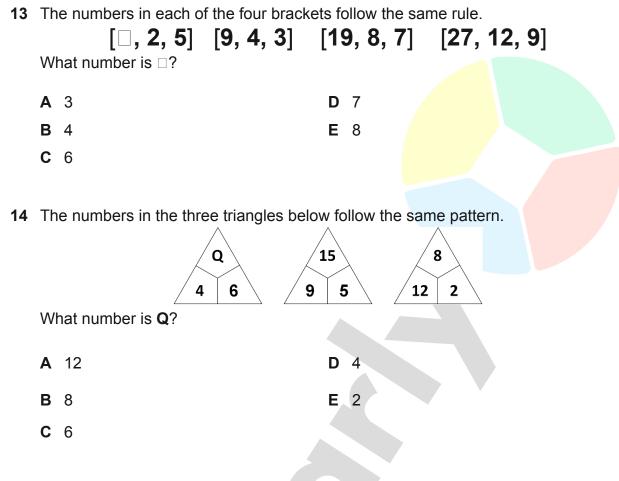
	2	16	72	296	1 192		

What number comes next in Andrea's number pattern?

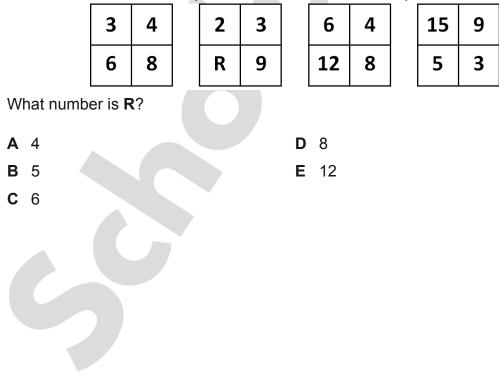
- A
 4 776
 D
 9 560

 B
 7 126
 E
 9 956
- **C** 9 552
- **12** The numbers in the four circles below follow the same pattern.





15 The numbers in the four squares below follow the same pattern.



16 An office supply store sold 6 pencil cases on Monday, 12 pencil cases on Tuesday, 18 pencil cases on Wednesday, and 24 pencil cases on Thursday.

If the number of pencil cases the store sold each day followed a pattern, how many pencil cases did the store sell on Saturday?

A 30 pencil cases

D 36 pencil cases

B 32 pencil cases

E 42 pencil cases

- **C** 34 pencil cases
- 17 Penelope planted six rows of rose bushes in her garden.

She planted 3 rose bushes in the first row, 11 rose bushes in the third row, 19 rose bushes in the fifth row, and 23 rose bushes in the sixth row.

If the number of rose bushes she planted in each row followed a pattern, how many rose bushes did she plant in the fourth row?

- A 4 rose bushes D 12 rose bushes
- **B** 5 rose bushes **E** 15 rose bushes
- **C** 6 rose bushes
- **18** Jericho created two number patterns.

The first number pattern starts with 6, and each succeeding number is determined by adding 6 to the previous number.

The second number pattern consists of multiples of 9 in increasing order starting with 9.

What is the smallest number that appears in both number patterns?

Α	6	D	18
В	9	Ε	36

C 12

19 Dexter answered a four-part test.

He spent 20 minutes on the first part, 80 minutes on the third part, and 160 minutes on the fourth part.

If the number of minutes Dexter spent on each part of the test followed a pattern, how much time did he spend on the second part?

A 30 minutes

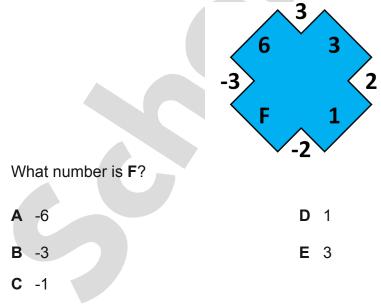
- **D** 60 minutes
- B 40 minutes E 70 minutes
- C 50 minutes
- **20** Harry arranged several rows of chairs in the auditorium.

He put 4 chairs in the first row, 6 chairs in the second row, 10 chairs in the fourth row, 12 chairs in the fifth row, and 14 chairs in the sixth row.

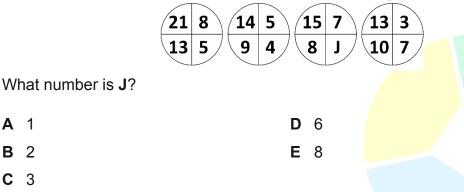
If the number of chairs he put on each row followed a pattern, in which row did he put 28 chairs?

- A
 12th row
 D
 15th row

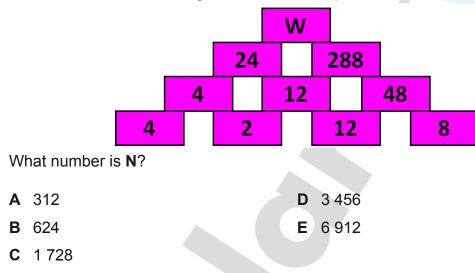
 B
 13th row
 E
 16th row
- C 14th row
- **21** The numbers in the figure below follow a pattern.



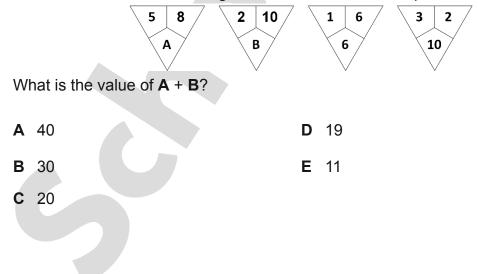
22 The numbers in the four circles below follow the same pattern.



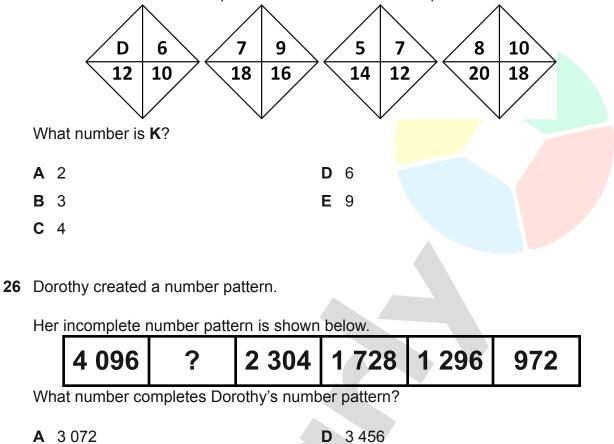
23 The numbers in the rectangles below follow a pattern.



24 The numbers in the four triangles below follow the same pattern.



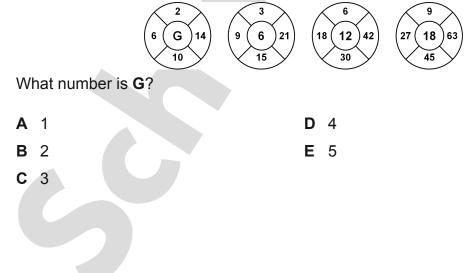
25 The numbers in the four squares below follow the same pattern.

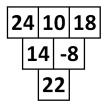


E 3 896

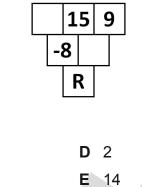
- **B** 3 184
- **C** 3 240

27 The numbers in the four circles below follow the same pattern.



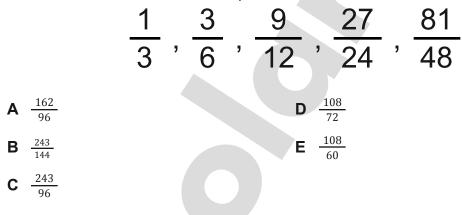


The pattern of the numbers in the pyramid above is repeated in the pyramid below.



What number is ${\bf R}?$

- **A** -14
- **B** -10
- **C** -2
- 29 What fraction comes next in this pattern?

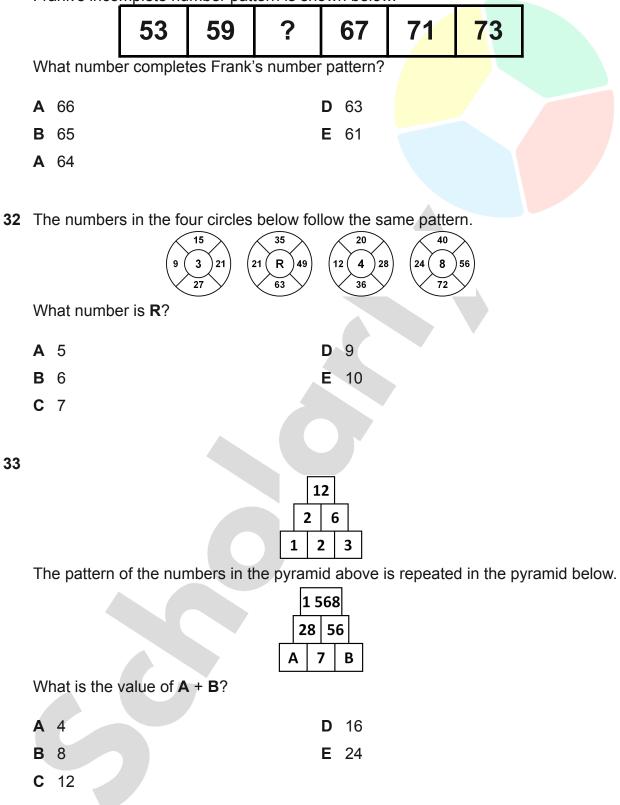


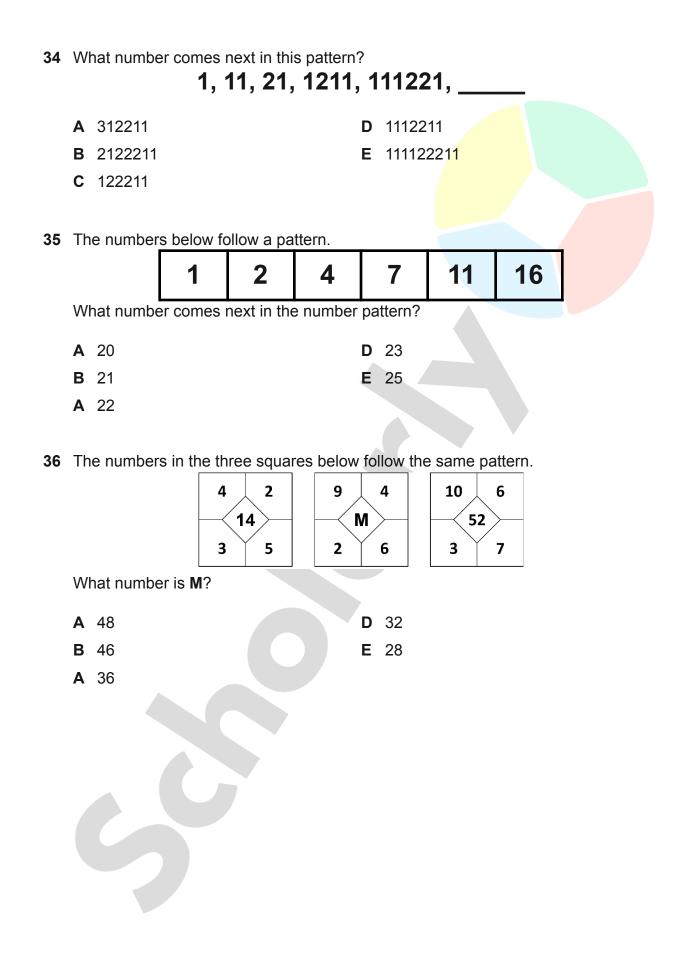
30 The numbers below follow a pattern.

	9	10	40	41	205	206
What numbe	er comes	next in the	e number	pattern?		
A 824				D 1 640		
B 1 236				E 1 641		
C 1 237						

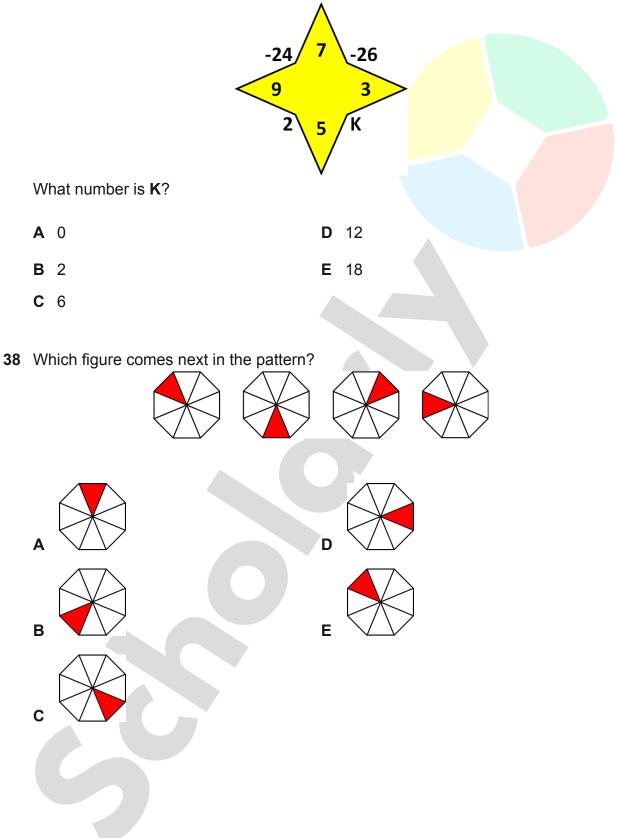
31 Frank created a number pattern.

Frank's incomplete number pattern is shown below.

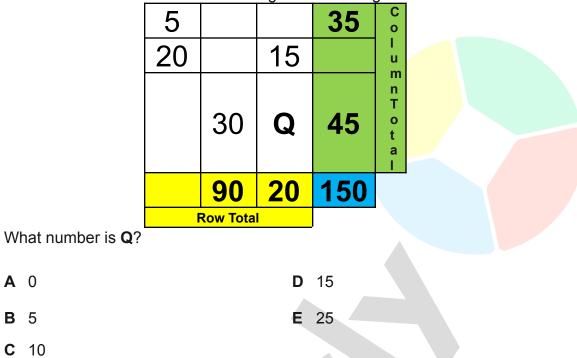




The numbers in the figure below follow a pattern.



39 Some of the numbers in this addition grid are missing.



40 Each set of three numbers below follows the same rule.

