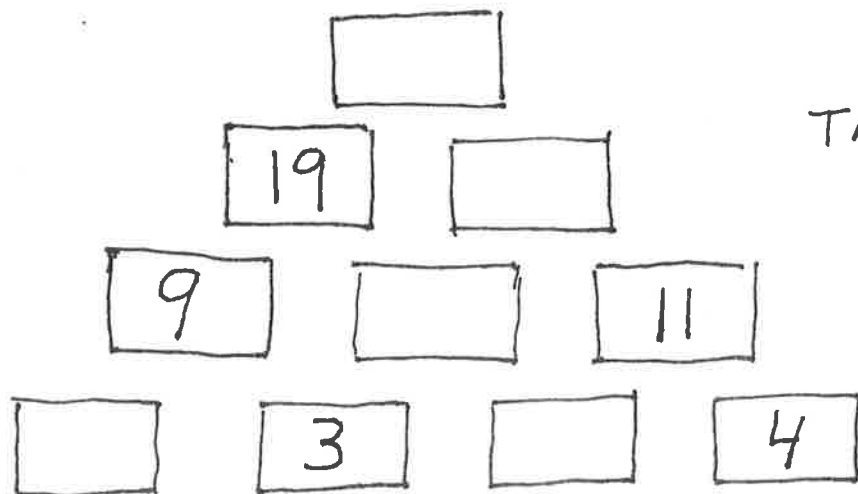
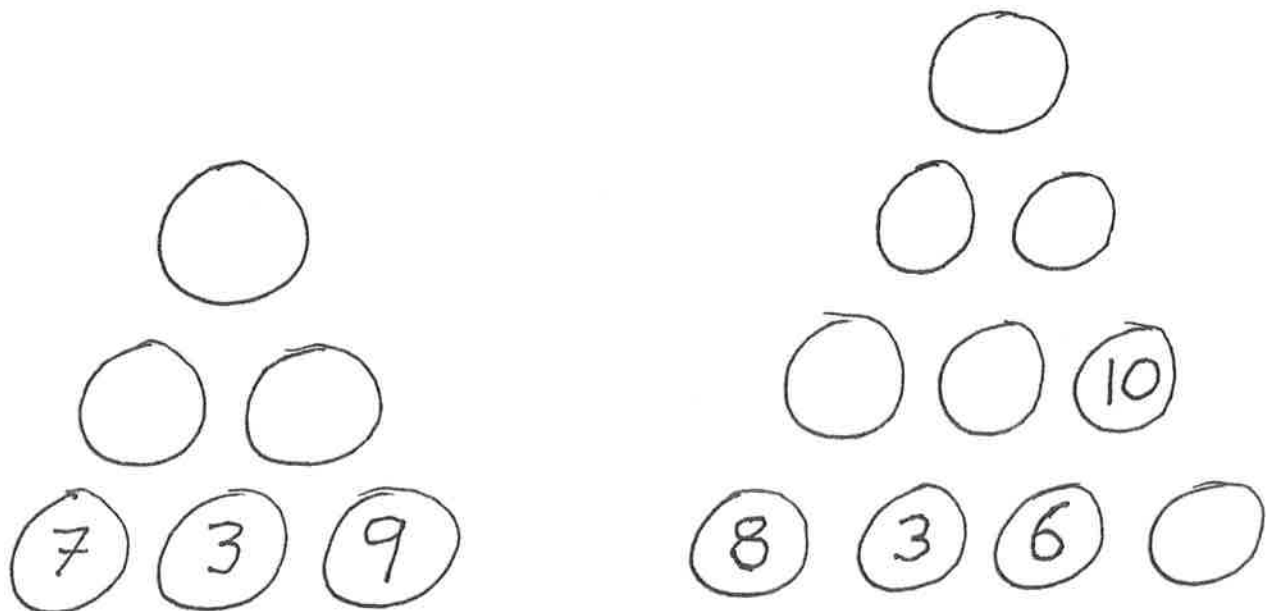
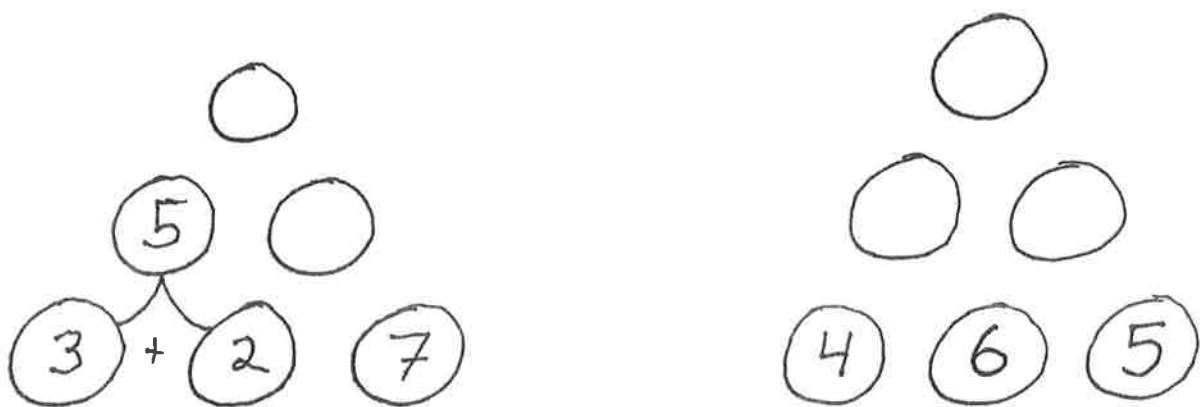


Here are some number puzzles.

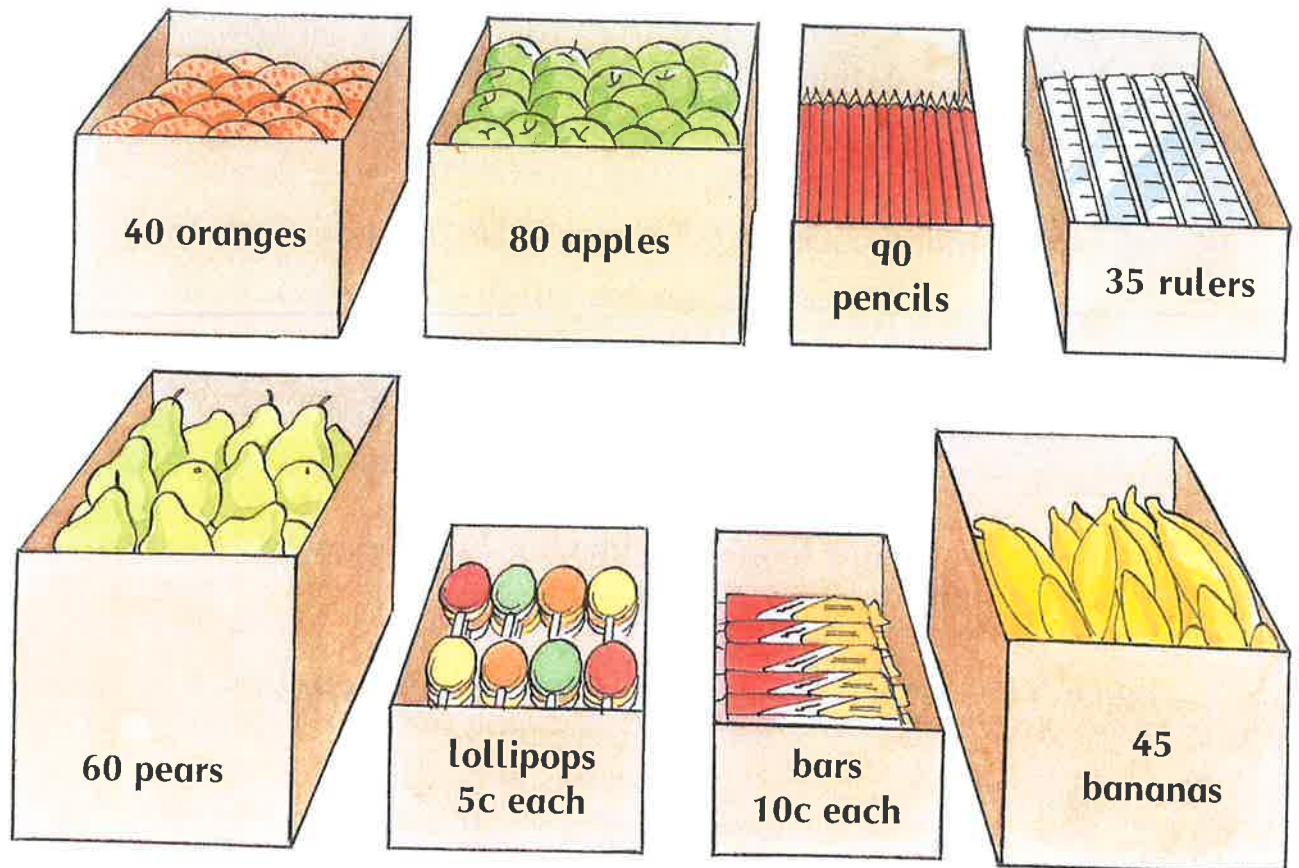
Start from the bottom of the triangle.

Add 2 numbers together to get the number above.



Try this!
You can
make
your own.

Dividing by 5, 10



1. How many bags of 5 could I make from
(a) the oranges? (b) the rulers? (c) the bananas?
2. How many bags of 10 could I make from
(a) the apples? (b) the pencils? (c) the pears?
3. Paul spent 35c on lollipops. How many did he buy?
4. Susan spent 50c on lollipops. How many did she buy?
5. How many bars did Peter get for €1?
6. How many bars did Jane get for 70c?
7. Ann spent 45c buying lollipops. How many did she buy?
8. Peter bought 90c worth of bars. How many did he buy?

Multiplying by 4

1. How many legs altogether have



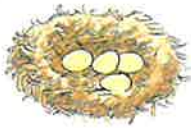
- (a) 3 sheep? (b) 7 sheep? (c) 5 sheep?
 (d) 2 sheep? (e) 6 sheep? (f) 8 sheep?

2. How many wheels altogether have



- (a) 4 tractors? (b) 6 tractors? (c) 9 tractors?
 (d) 5 tractors? (e) 3 tractors? (f) 7 tractors?

3. How many eggs have



- (a) 2 nests? (b) 8 nests? (c) 10 nests?
 (d) 6 nests? (e) 9 nests? (f) 5 nests?

4. How much for



- (a) 5 bars? (b) 7 bars? (c) 10 bars?
 (d) 4 bars? (e) 2 bars? (f) 9 bars?

Write a multiplication sentence for each of these.

5.
 $\square \times 4 = \square$

6.
 $\square \times 4 = \square$

7.
 $\square \times 4 = \square$

8.
 $\square \times 4 = \square$

9. Complete these: (\rightarrow means $\times 4$)

(a)

(b)

10. Complete this table.

X	0	1	2	3	4	5	6	7	8	9	10
4	0			12							

Groups of 8



How many buns are there altogether?

$8 + 8 + 8 + 8 + 8 + 8 = \square$ buns



\square groups of 8 = \square buns



$\square \times 8 = \square$ buns

2. Write an addition sentence and a multiplication sentence for each of these.

(a)



$8 + 8 + \square + \square + \square + \square + \square = \square$ bananas

7 bunches of \square bananas

$\square \times 8 = \square$ bananas

(b)

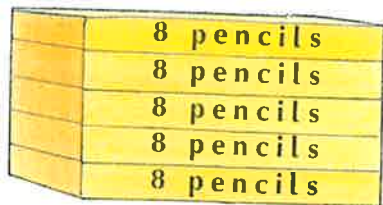


$8 + \square + \square + \square + \square + \square + \square + \square + \square = \square$ bars

9 packs of \square bars

$\square \times 8 = \square$ bars

(c)



$\square + \square + \square + \square + \square = \square$ pencils

\square boxes of \square pencils

$\square \times 8 = \square$ pencils

3. Write a multiplication sentence for each of these.

(a) $8 + 8 + 8 = \square$

(b) $8 + 8 + 8 + 8 + 8 + 8 + 8 + 8 = \square$

(c) $8 + 8 + 8 + 8 = \square$

(d) $8 + 8 + 8 + 8 + 8 + 8 + 8 = \square$

4. Write an addition sentence for each of these.

(a) $5 \times 8 = \square$

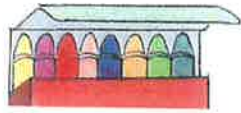
(b) $7 \times 8 = \square$

(c) $9 \times 8 = \square$

(d) $6 \times 8 = \square$

Multiplying by 8

1. How many crayons altogether are there in



- (a) 3 boxes? (b) 5 boxes? (c) 7 boxes?
 (d) 6 boxes? (e) 9 boxes? (f) 4 boxes?

2. How many apples altogether are there in



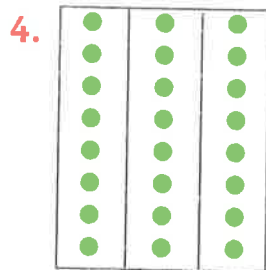
- (a) 4 bags? (b) 2 bags? (c) 9 bags?
 (d) 7 bags? (e) 8 bags? (f) 3 bags?

3. How much for

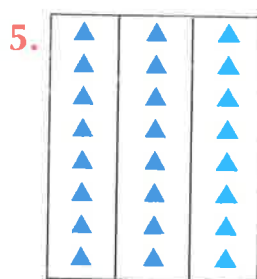


- (a) 6 bars? (b) 0 bars? (c) 10 bars?
 (d) 9 bars? (e) 5 bars? (f) 8 bars?

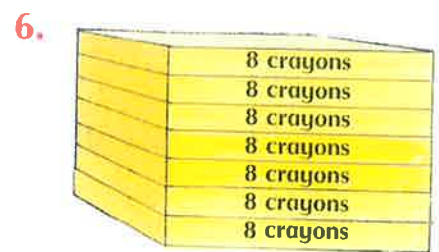
Write a multiplication sentence for each of these.



× =



× =



× =

7. Complete these: (→ means × 8)

(a)

(b)

8. Write an addition sentence for each of these.

- (a) $4 \times 8 = \square$ (b) $7 \times 8 = \square$ (c) $10 \times 8 = \square$ (d) $6 \times 8 = \square$
 (e) $3 \times 8 = \square$ (f) $9 \times 8 = \square$ (g) $0 \times 8 = \square$ (h) $5 \times 8 = \square$

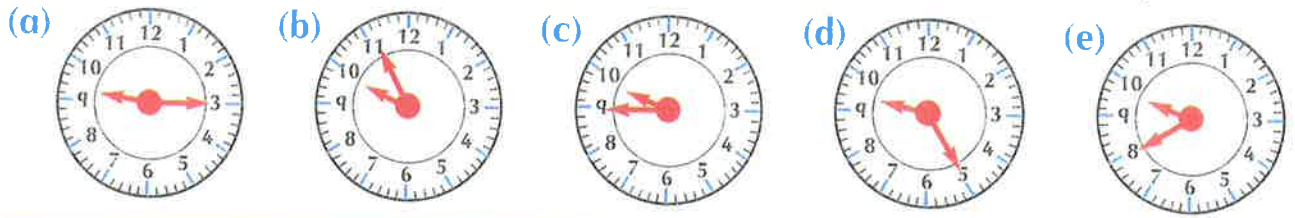
9. Complete this table.

X	0	1	2	3	4	5	6	7	8	9	10
8	0		16								

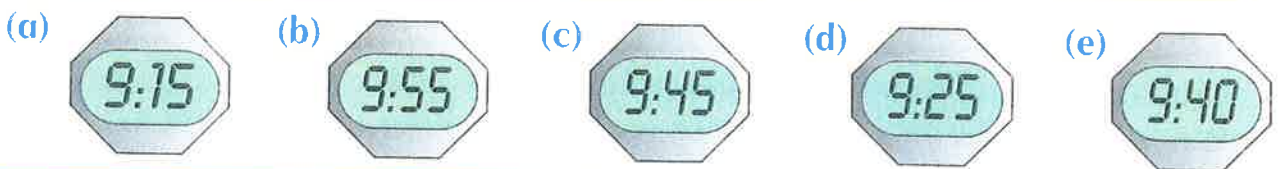
What time is it?

1. Read the times on the clocks out loud.

Starting with a **quarter past nine**, arrange the clocks in order of time.

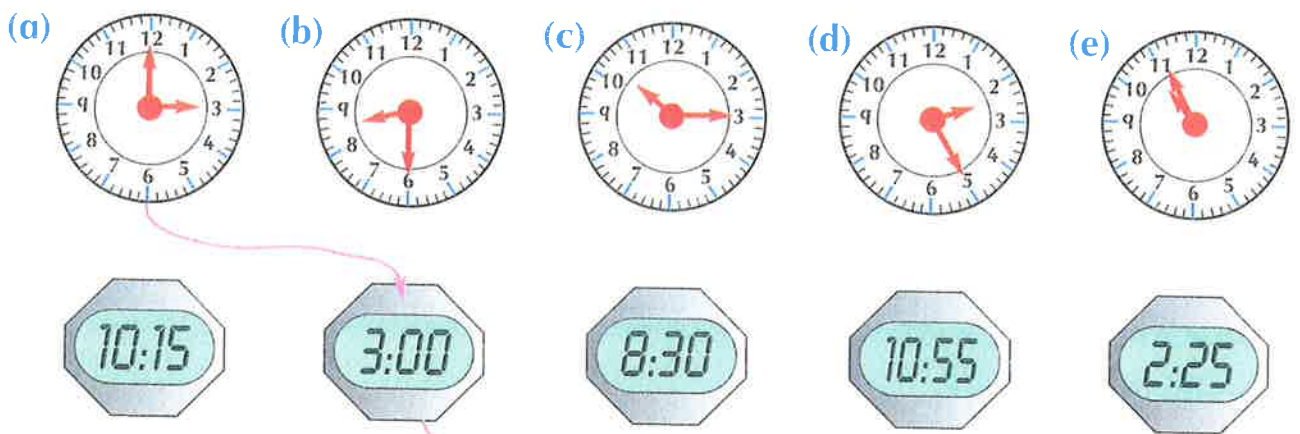


Not all clocks have hands. Perhaps you have a **digital watch**. To help you understand digital times, start at **one** and count in **fives** all around each clock. The clock times pictured above would appear as follows on a digital watch.



2. Match each clock time (i) with the correct digital watch and (ii) with what we say when asked the time.

The first one is done for you.



It's half past eight.

It's a quarter past ten.

It's twenty-five past two.

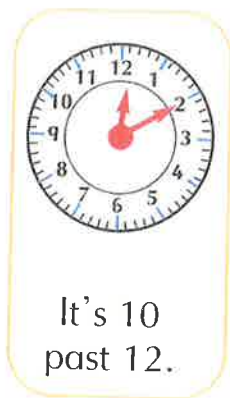
It's three o'clock.

It's five minutes to eleven.



What time is it?

1. Look at the long hand. It's 10 minutes past the hour on each clock.



2. Draw clock-faces to show 10 past 3, 10 past 5, 10 past 2, 10 past 8.

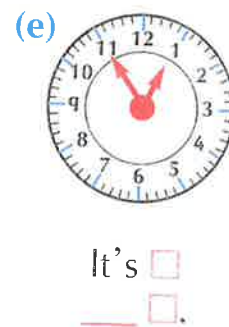
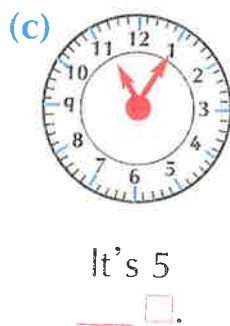
3. Look at the long hand. It's either pointing to 4 or 8.

Say if the time is 20 past the hour or 20 to the hour on each clock.



4. Draw clock-faces to show 20 past 4, 20 past 8, 20 to 4, 20 to 8.

5. Look at the long hand first, then say what time it is.



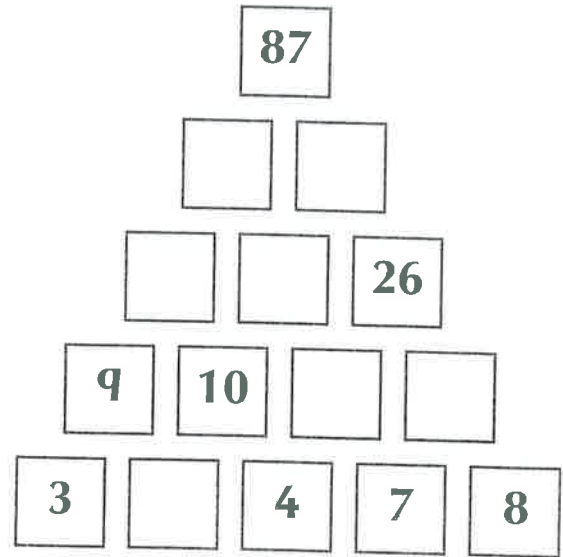
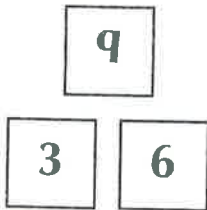
6. Draw clock-faces to show 25 past 3, 25 to 3, 5 past 10, 5 to 10.

Solve the puzzles

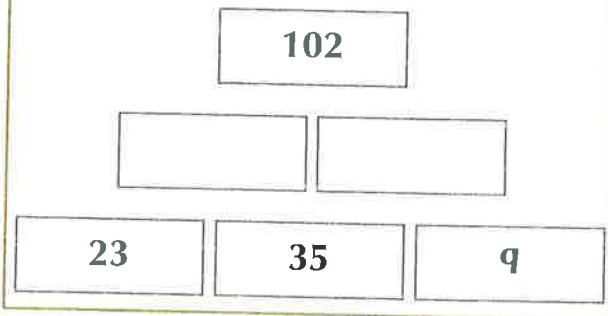
1. Find the correct number to fill the blank boxes in the pyramid.

Rule: Every number must be the sum of the two numbers below it.

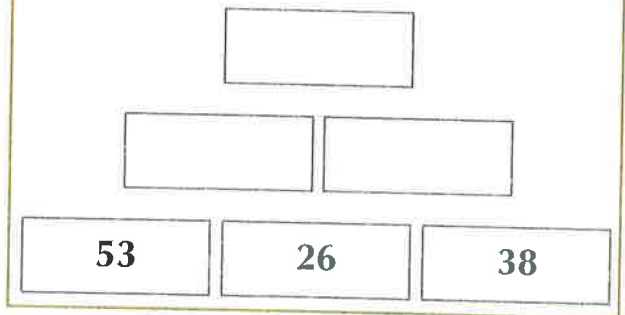
Example



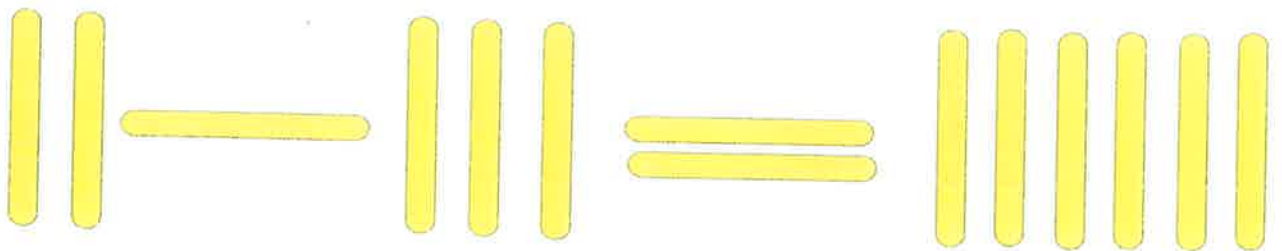
2. Can you figure out why 102 goes at the top?
Start at the bottom three numbers and work upwards.



3. Here are the bottom 3 numbers. Work upwards to fill the empty blocks.



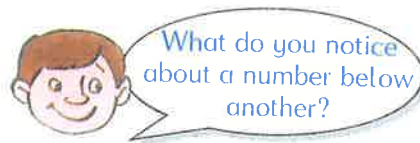
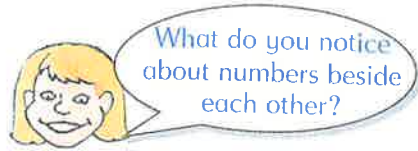
4. The sum made by the lollipop sticks is not correct. Move one lollipop stick to make it correct.



1. Fill in the missing numbers in the 100 square.

1	2		4	5	6	7	8		10
11	12	13	14	15		17		19	20
21	22	23	24	25	26		28	29	30
31	32	33	34		36	37	38		40
41	42	43	44	45		47		49	50
	52	53	54	55	56		58	59	60
61	62		64	65		67	68	69	
71	72	73	74	75	76		78	79	80
81	82	83		85	86	87	88		90
	92	93	94	95	96	97		99	100

Let's look at some patterns in the 100 square.



2. Use your 100 square to help you fill in these patterns.

(a)

15		17	
35			38
	46		

(b)

32			
	43		
62			65

(c)

		56	
		75	
84			

(d)

16			
	37		
			49

3. Complete these sections of the 100 square.

(a)

22		
	33	
		44

(b)

		18
	27	
36		

(c)

51		
		73

(d)

	48	

4. Try these. Can you see a pattern in your answers?

(a) $23 + 4 = \square$
 (b) $33 + 4 = \square$
 (c) $43 + 4 = \square$
 (d) $53 + 4 = \square$

(e) $51 + 6 = \square$
 (f) $61 + 6 = \square$
 (g) $71 + 6 = \square$
 (h) $81 + 6 = \square$

(i) $8 - 4 = \square$
 (j) $18 - 4 = \square$
 (k) $28 - 4 = \square$
 (l) $38 - 4 = \square$

(m) $37 - 5 = \square$
 (n) $47 - 5 = \square$
 (o) $57 - 5 = \square$
 (p) $67 - 5 = \square$

5. Start at the red number. Can you see a pattern?

