

Test 1

Essential Maths Book 7S Units 1 & 2

No calculators

1. (a) The numbers on these cards should have a **total of 40**.

Copy the cards and fill in the missing number.

8	16	
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(1 mark)

- (b) The numbers on these cards shall have a **total of 40**.

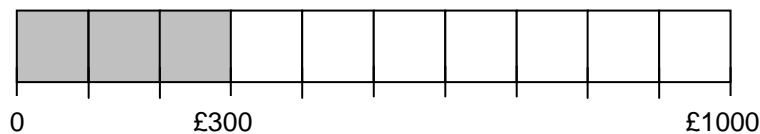
What could the numbers be?

Copy the cards and fill in the missing numbers.

	18	
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(1 mark)

2. Gary is saving to buy a car for which he needs £1000



So far he has saved £300.

- (a) What **percentage** of the £1000 has he saved so far? (1 mark)

- (b) After a further six months he has saved 65% of the £1000 he needs.

Copy the diagram above and shade more to show this.

(1 mark)

3. Here are three pairs of numbers. a) 5 4.8
For each pair write down the number b) 7 -3
that is **bigger**. c) 1.55 1.6 (3 marks)

4. I am thinking of two numbers
When I **add** the numbers, the answer is 13.
When I **multiply** the numbers, the answer is 40.
What are the two numbers? (2 marks)

5. Copy each statement and fill in the missing number.

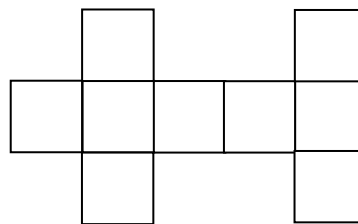
a) $\square \rightarrow \times 6 \rightarrow 72$

b) $3.14 \rightarrow \times 10 \rightarrow \square$

c) $\square \rightarrow \div 7 \rightarrow 5$

(3 marks)

6. Copy and shade $\frac{1}{3}$ of this shape.

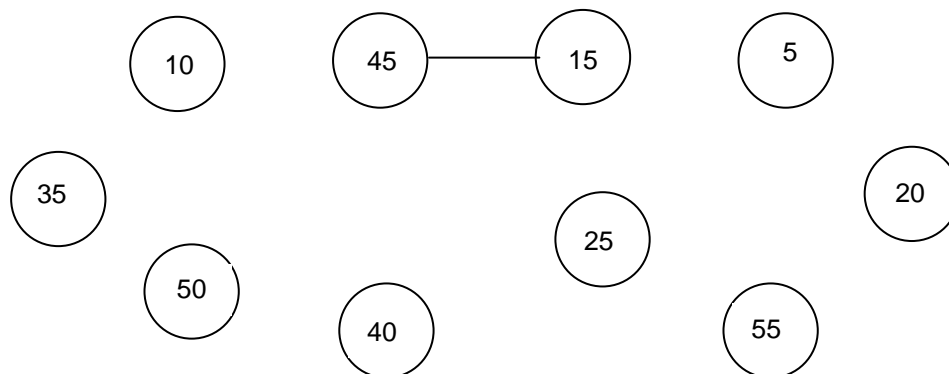


(1 mark)

7. Copy the diagram below.

Draw lines to join every pair of numbers that add to make 60.

One is done as an example.



(2 marks)

8. Here are four number cards

1

3

5

8

Use the four number cards to make the answer to the calculation as **large** as possible.

$$\square \square + \square \square$$

(2 marks)

9. David is trying to find a number in a computer game.

The number is more than 5.2

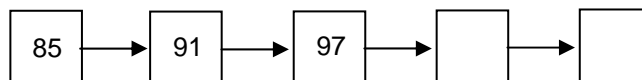
The number is less than 5.3

Write a number that David could write.

(1 mark)

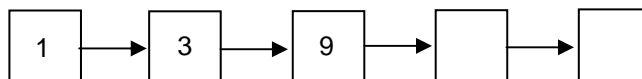
10. (a) Fill in the missing numbers in these number chains.

Rule: **Add** 6 each time



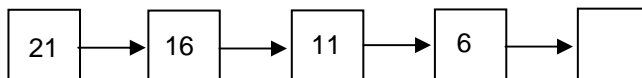
(1 mark)

(b) Rule: **Multiply** by 3 each time.



(1 mark)

(c) Here is another chain.

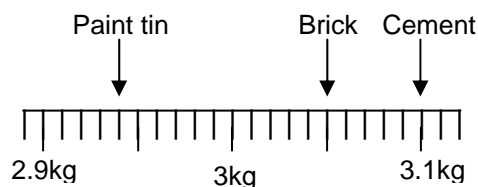


What is the rule for this chain?

(1 mark)

11. A builder weighed three objects.

The arrows on the scale show the weights.



(a) What was the weight of the paint tin?

(1 mark)

(b) How much heavier was the cement than the paint tin?

(1 mark)

(c) How much would 100 bricks weigh?

(1 mark)

12. The numbers below go up in equal steps.
Find the missing numbers.

	7	13	19		
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(1 mark)

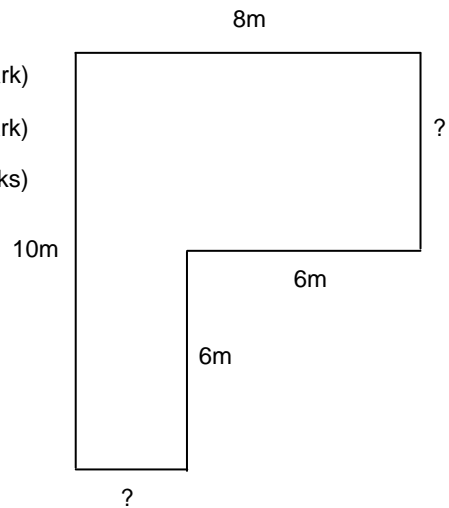
13. Write these numbers in order, smallest first.

2	- 4	
5	- 3	0

(2 marks)

14. The diagram shows a room in a house.

- (a) Find the two missing lengths. (1 mark)
(b) Find the perimeter of the room. (1 mark)
(c) Find the area of the room. (2 marks)



15. Ian had £12.60. He bought a DVD costing £8.25
How much money did he have left?

(1 mark)

16. Which two fractions have the same value?

$$\frac{3}{9} \quad \frac{4}{8} \quad \frac{1}{3}$$
$$\frac{2}{5} \quad \frac{4}{9}$$

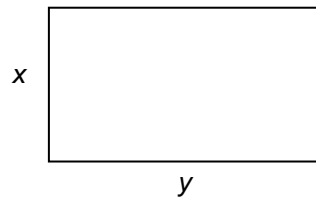
(1 mark)

17. Which box is the same as $2n + 3 + n - 1$?

$5n + 2$	$3n + 4$	$3n + 2$	$4n$
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(1 mark)

18. Find the perimeter of this rectangle
if $x = 7\text{cm}$ and $y = 9\text{ cm}$



(2 marks)

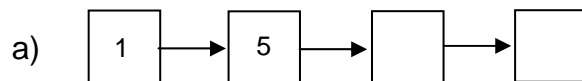
19. The diagram shows part of a number grid
Copy the diagram and fill in
the missing numbers.

632	633		
622			625
	613		

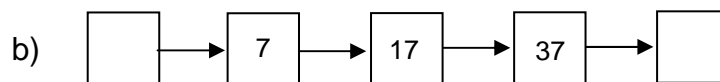
(3 marks)

20. The rule for the number sequences below is
'Double and add 3'

Copy each sequence and find the missing numbers.



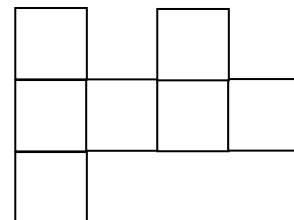
(1 mark)



(2 marks)

21. The shape here is made with centimetre squares.

(Diagram is
not to scale)



- (a) Write down the area of the shape. (1 mark)
- (b) Write down the perimeter of the shape. (1 mark)
- (c) Draw a shape made with centimetre squares
which has an area of 6cm^2 and a perimeter of 14cm . (2 marks)