

MATHEMATICS
SAMPLE INTERMEDIATE TEST 1

(40 minutes)

Candidate's Name (in full)

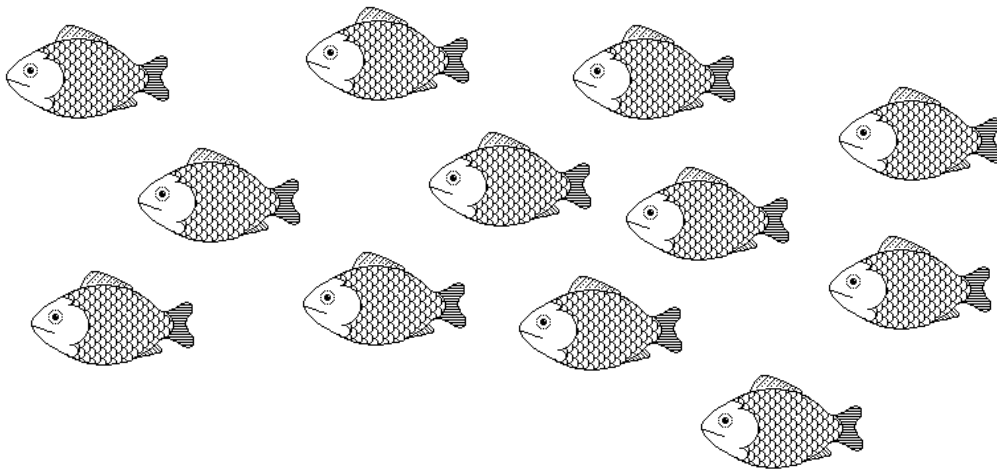
Answer all questions in the spaces provided.

Calculators are allowed.

Scrap paper may be used if required.

Answer **all** questions in the spaces provided.

1.



(a) How many fish are there?

..... [1]

(b) Put a ring round a *quarter* ($\frac{1}{4}$) of the fish.

[1]

2. Write down another two *subtraction* sums which give an answer of 8.

$$\underline{\quad 10 \quad} - \underline{\quad 2 \quad} = 8$$

$$\underline{\quad \quad \quad} - \underline{\quad \quad \quad} = 8$$

$$\underline{\quad \quad \quad} - \underline{\quad \quad \quad} = 8$$

[2]

3.

- 12 17 5 8 19 7

(a) Write down *all* the *odd* numbers from the list above.

.....

(b) Find the difference between the *largest* and *smallest* of the *odd* numbers.

.....
.....

[2]

4. Complete this bill

4 melons at £2 each £

3 cakes at £3 each £

Total £

[3]

5. Write down the missing numbers in each square below.

(a) $11 + \square = 16$

(b) $4 \times \square = 20$

(c) $\square - 9 = 23$

(d) $14 \div \square = 7$

[4]

6. These are repeating patterns. Complete them.

(a) $\boxed{1} \quad \boxed{2} \quad \boxed{3} \quad \boxed{4} \quad \boxed{3} \quad \boxed{\dots} \quad \boxed{\dots}$

(b) $\boxed{1} \quad \boxed{2} \quad \boxed{3} \quad \boxed{4} \quad \boxed{5} \quad \boxed{4} \quad \boxed{\dots} \quad \boxed{\dots} \quad \boxed{\dots}$

(c) $\boxed{2} \quad \boxed{4} \quad \boxed{6} \quad \boxed{8} \quad \boxed{6} \quad \boxed{\dots} \quad \boxed{\dots}$

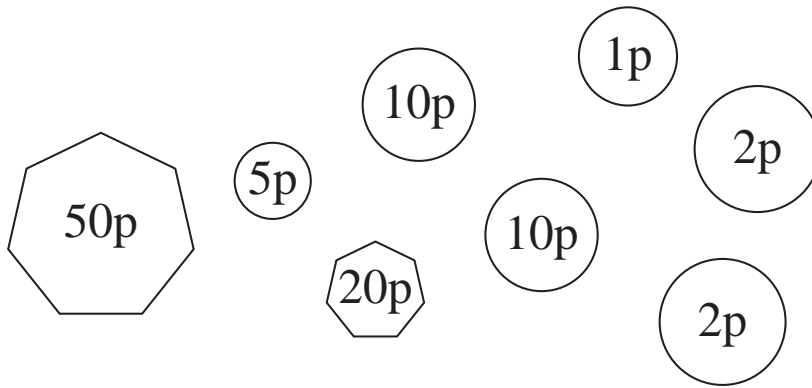
[3]

7. Write down 486 in words.

.....

[1]

8. Sam has these coins.



(a) Show one way of making exactly 32p with some of Sam's coins.

.....

(b) Show one way of making exactly 73p with some of Sam's coins.

.....

[2]

9. (a) The number 4 has the same position in these numbers

742, 340, 149

What is the value of the 4 in this position?

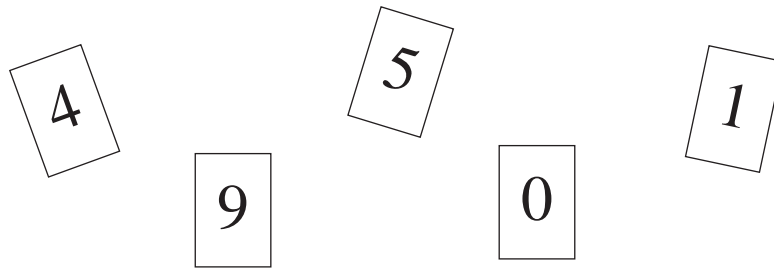
Answer

(b) Find *two* (2) other numbers which give the same total as $8 + 5$.

Answer

[2]

10. These are number cards.

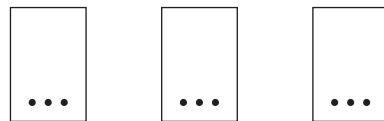


You can show the number

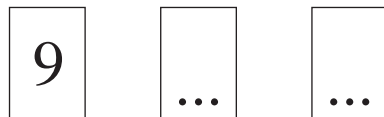


by using 3 of these cards.

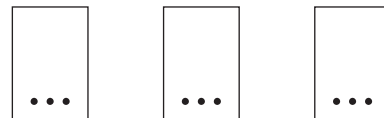
(a) Write down the *biggest* number you can show with any 3 of the cards.



(b) Write down the *smallest* number you can show starting with 9 and using 2 more cards.

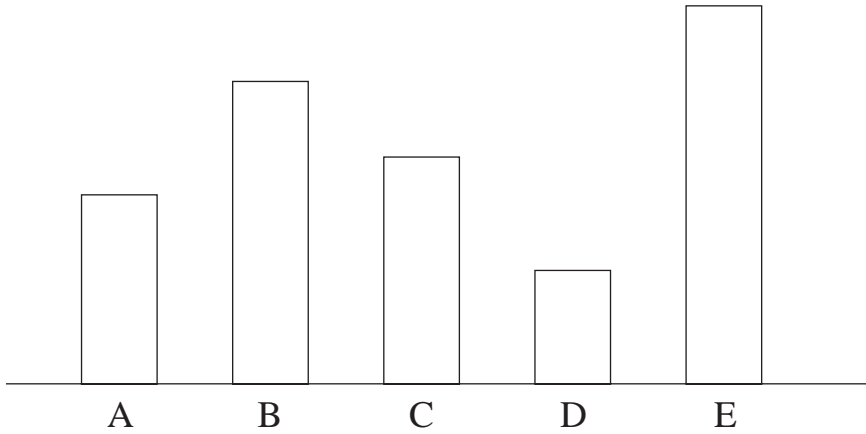


(c) Write down the number which is ten times bigger than fifty nine.



[3]

11.

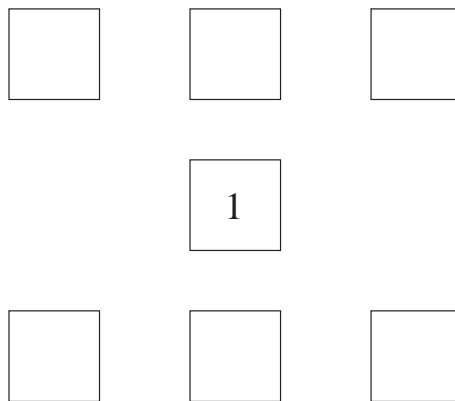


The diagram shows some blocks of flats.

- (a) Write down the letter of the *tallest* block.
- (b) Write down the letter of the *shortest* block.
- (c) Which block is shorter than E but taller than C?
- (d) Which block is shorter than C but taller than D?

[4]

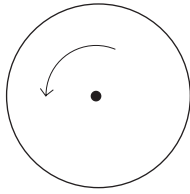
12.



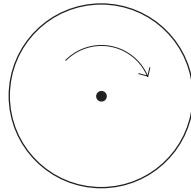
- (a) Put the number 2 in the square in the bottom left hand corner.
- (b) Put the number 3 in the square directly above the square with 1 in it.
- (c) Put the number 4 in all other squares.

[3]

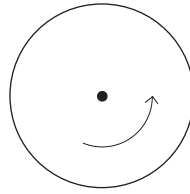
13.



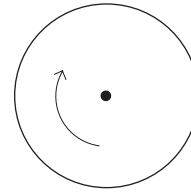
A



B



C



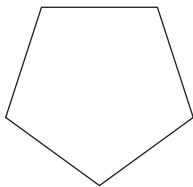
D

Which wheels are turning *anti-clockwise*?

.....
[2]

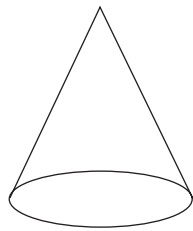
14. Write down the names of these shapes.

(a)



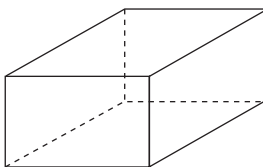
Answer

(b)



Answer

(c)



Answer
[3]

15.

TRAIN

GLIDER

SKATEBOARD

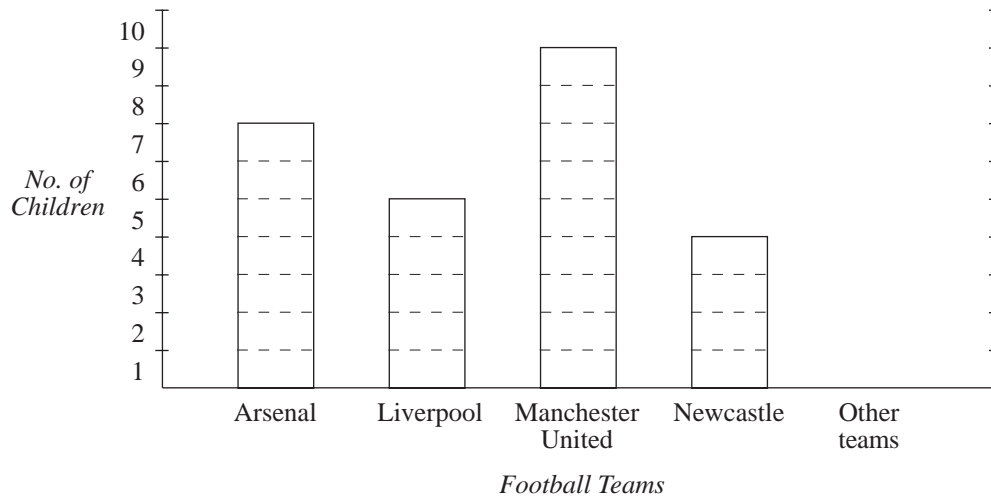
JETPLANE

Put each of the names above in the correct box.

	<i>Travels on the ground</i>	<i>Travels in the air</i>
<i>Has motor</i>		
<i>Has no motor</i>		

[4]

16. The graph shows the favourite football teams of 30 children.



- (a) Write a title for the graph.
- (b) Find the total number of children whose favourite team is Arsenal or Liverpool or Manchester United or Newcastle.

.....

.....

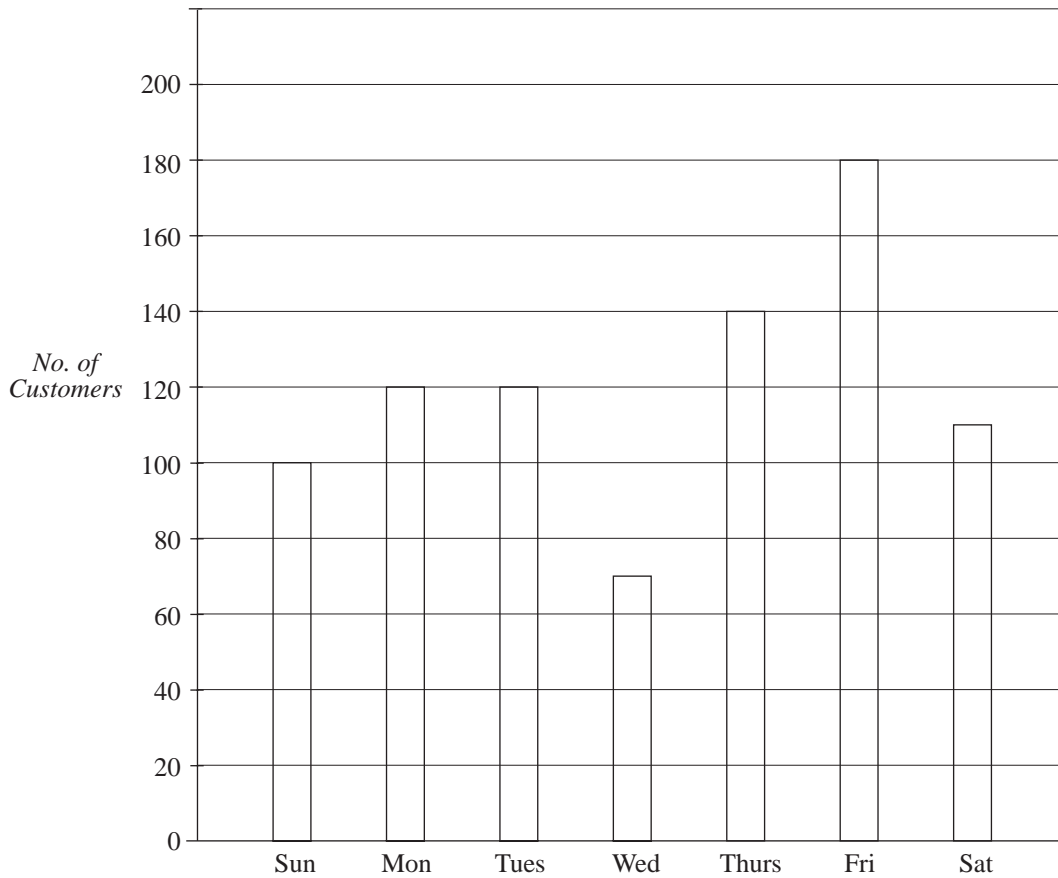
- (c) How many children chose 'Other teams' ?

.....

- (d) Draw the blocks for 'Other teams'.

[4]

17. The graph shows the number of customers at a small shop during one week.



(a) Which day had the *greatest* number of customers?

Answer

(b) Which day had the *least* number of customers?

Answer

(c) What is the difference between the number of customers on Tuesday and on Wednesday?

.....

[4]