

Data and Probability

1 Find the mean of these numbers

11, 8, 2

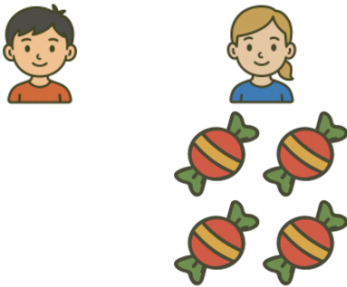
A 12	B 1	C 7
D 11	E 8	F 6

2 What is the MEAN (average) number of candies in each group?



A 8	B 3	C 5
D 0	E 1	F 6

3 What is the MEAN (average) number of candies per kid?



0 4

A 7	B 0	C 1
D 3	E 2	F 5

4 Find the median of these numbers

18, 17, 18, 13, 16, 5, 13

A 15	B 16	C 19
D 20	E 18	F 10

5 What is the median of this data set?

42, 50, 59, 41, 64, 70, 55, 12, 55, 51

A 50.5	B 53
C 59	D 42

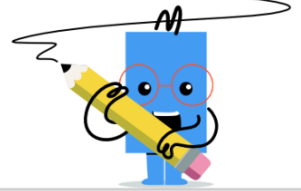
6 What is the median of this data set?
46, 89, 65, 77, 16, 57, 28, 12

A 71	B 22
C 46.5	D 51.5

7 Find the mode of these numbers

4, 11, 5, 12, 8, 11

A 12	B 10	C 14
D 11	E 6	F 5



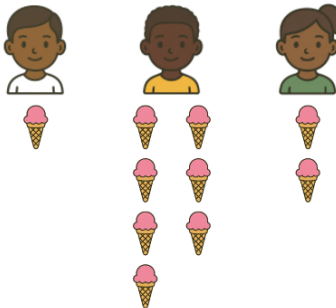
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8 Find the range of these numbers

17, 6, 15, 10, 19, 18, 10

A 11	B 10	C 14
D 13	E 18	F 12

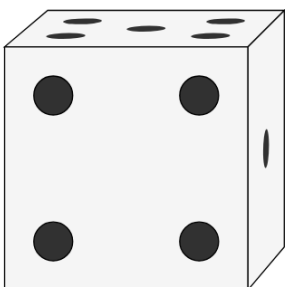
10 What is the DIFFERENCE between the largest and smallest number of ice creams the kids have?



1 7 2

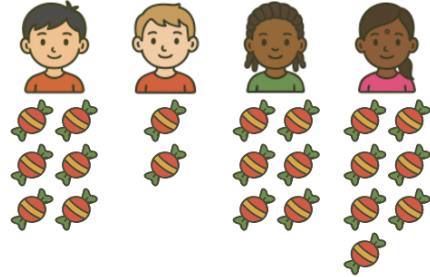
A 4	B 11	C 3
D 9	E 2	F 6

12 Which of these is less likely?



- A Roll a 1
- B Roll a number greater than 0

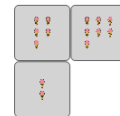
9 What is the RANGE of the number of candies among the kids?



6 2 6 7

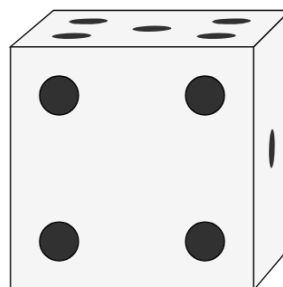
A 8	B 7	C 4
D 2	E 10	F 5

11 What is the DIFFERENCE between the largest and smallest number of ice creams in these groups?

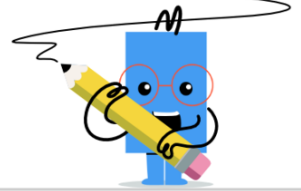


A 8	B 2	C 5
D 1	E 10	F 9

13 Which of these is less likely?

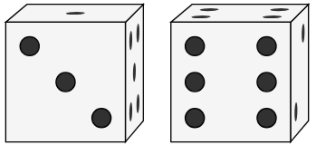


- A Roll a number less than 6
- B Roll a number greater than 6



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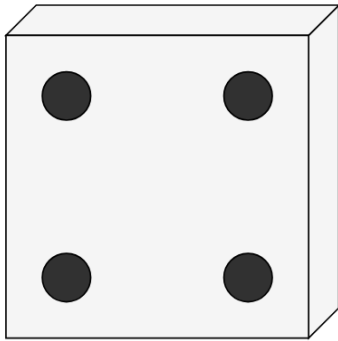
14 Which of these is less likely?



A Roll a sum greater than 1

B Roll a sum greater than 4

16 What is the chance of rolling 6 on this dice?



A $\frac{2}{11}$

B $\frac{1}{4}$

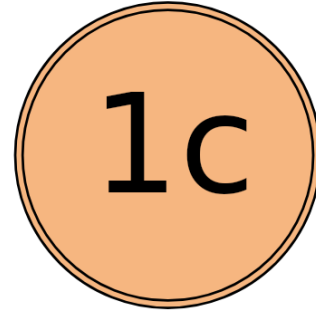
C $\frac{3}{9}$

D $\frac{2}{10}$

E $\frac{1}{6}$

F $\frac{2}{5}$

15 What is the chance of flipping tails on this coin?



A $\frac{1}{2}$

B $\frac{1}{4}$

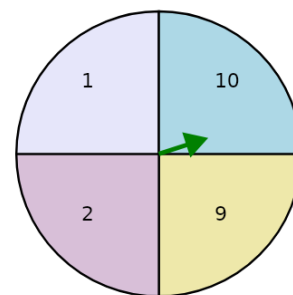
C $\frac{3}{5}$

D $\frac{2}{7}$

E $\frac{3}{4}$

F $\frac{3}{4}$

17 Calculate the probability of spinning 1. Show as a fraction



P(1)

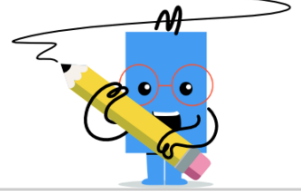
A $\frac{3}{3}$

B $\frac{2}{3}$

C $\frac{1}{3}$

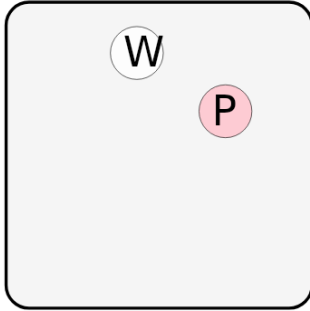
D $\frac{1}{4}$

E $\frac{1}{8}$



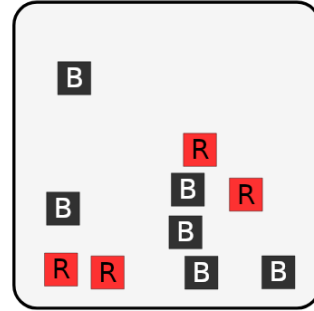
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18 What is the chance of drawing a white circle at random from this bag?



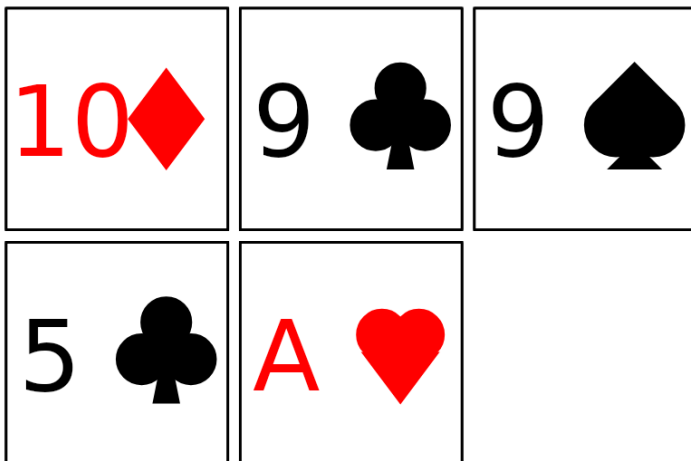
A	$\frac{2}{3}$	B	$\frac{1}{2}$
C	$\frac{2}{5}$	D	$\frac{2}{8}$
E	$\frac{2}{10}$	F	$\frac{2}{2}$

19 What is the chance of drawing a red square at random from this bag?



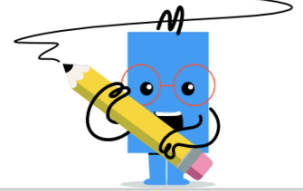
A	$\frac{4}{5}$	B	$\frac{3}{8}$
C	$\frac{1}{2}$	D	$\frac{2}{3}$
E	$\frac{4}{8}$	F	$\frac{4}{10}$

20 Calculate the probability of drawing any Spade. Show as a fraction



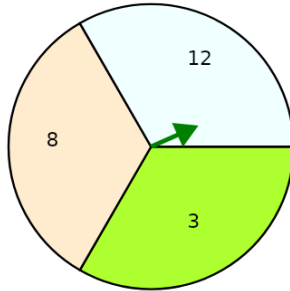
P(Spade)

A	$\frac{1}{5}$
B	$\frac{3}{6}$
C	$\frac{1}{6}$
D	$\frac{4}{7}$



Data and Probability

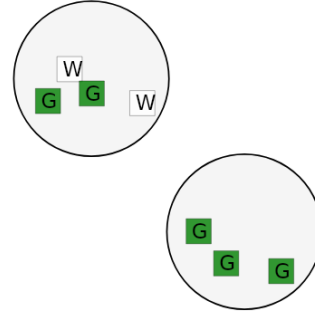
21 Calculate the probability of spinning greater than 10. Show as a fraction



$P(> 10)$

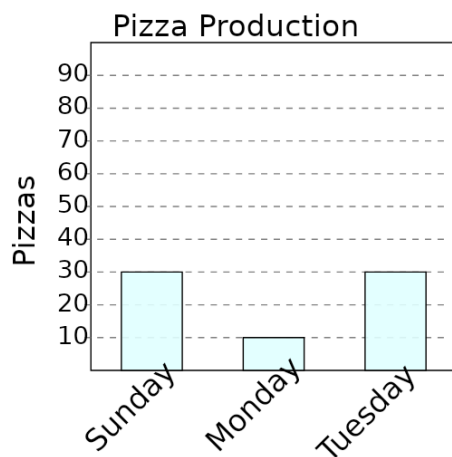
A	$\frac{2}{7}$	B	$\frac{3}{7}$
C	$\frac{2}{5}$	D	$\frac{1}{9}$
E	$\frac{1}{3}$		

22 What is the chance of drawing a green shape at random from both bags?



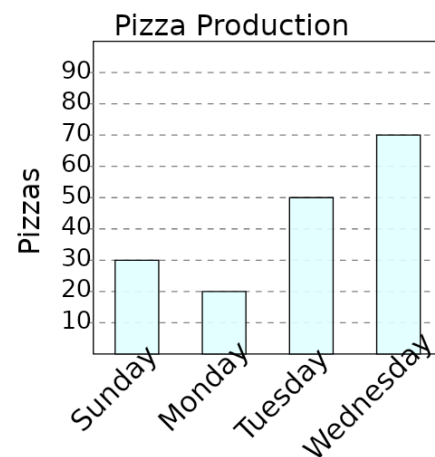
A	$\frac{2}{10}$	B	$\frac{6}{10}$
C	$\frac{2}{8}$	D	$\frac{1}{5}$
E	$\frac{6}{12}$	F	$\frac{2}{6}$

23 How many pizzas were made in total?

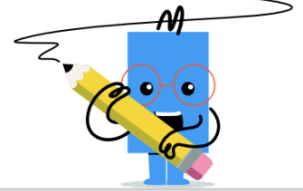


A	70	B	50	C	110
D	120	E	130	F	90

24 How many pizzas were made on Sunday?

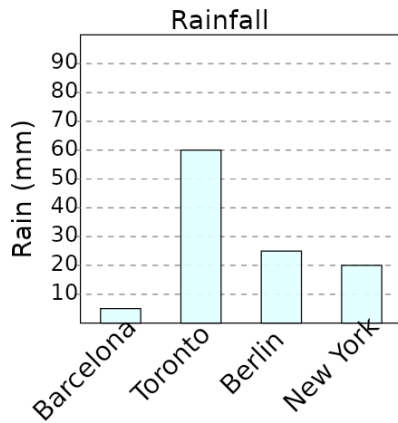


A	50	B	30	C	20
D	40	E	0	F	10



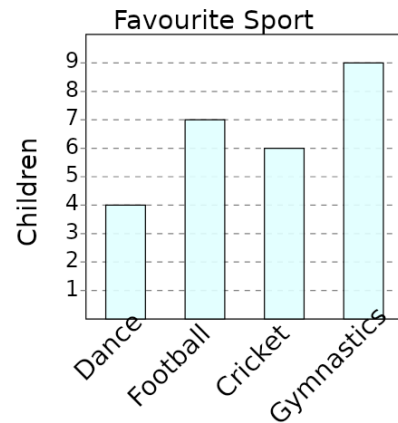
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25 How many more millimeters of rain were there in Berlin than in Barcelona?



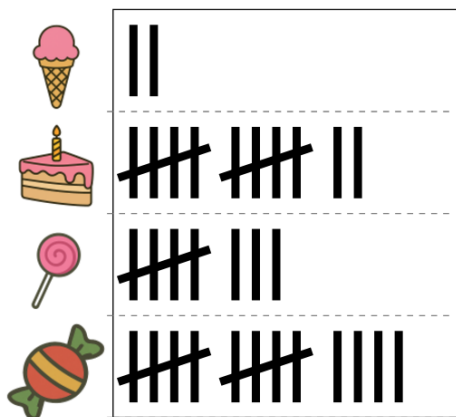
A	5	B	20	C	10
D	15	E	55	F	30

26 How many kids like either football or cricket as a sport?



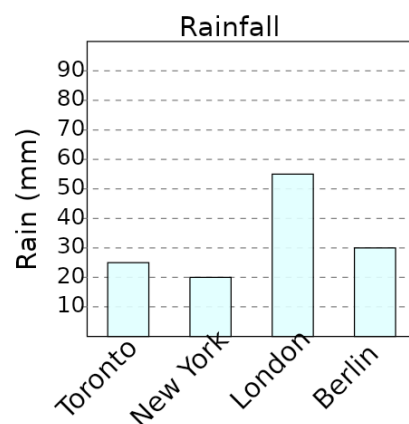
A	7	B	8	C	20
D	13	E	17	F	16

27 How many more kids like candy than cake as a treat?

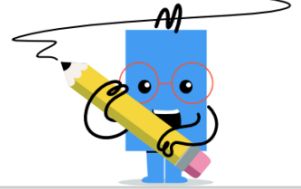


A	8	B	0	C	1
D	2	E	5	F	6

28 How many millimeters of rain were there in London and New York total?

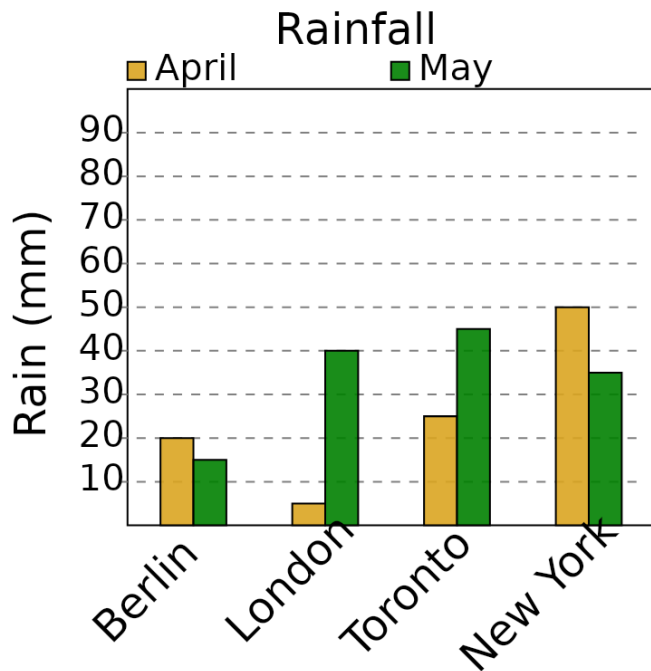


A	65	B	40	C	75
D	50	E	95	F	90



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29 Did more rain fall during April in New York or during May in Toronto?



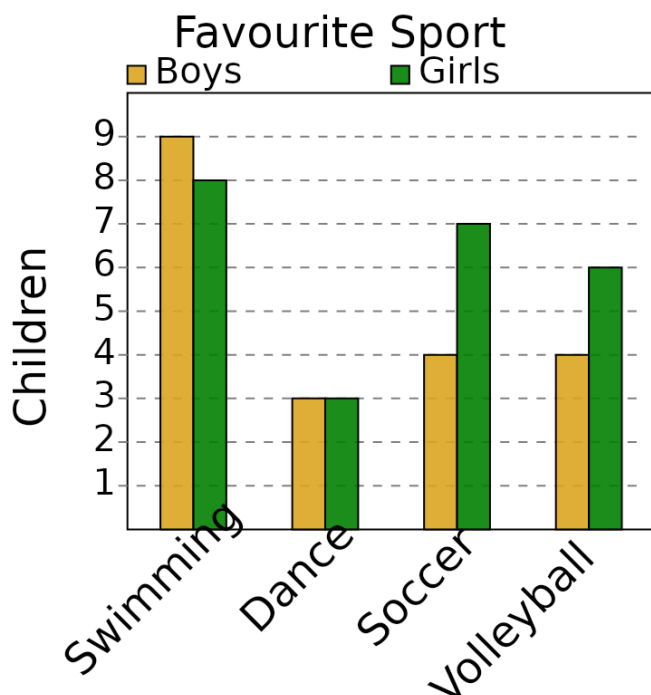
A

April / New York

B

May / Toronto

30 What sport do the LARGEST number of either boys or girls like?



A

Girls / Volleyball

B

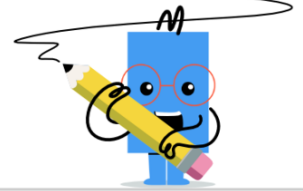
Boys / Swimming

C

Boys / Dance

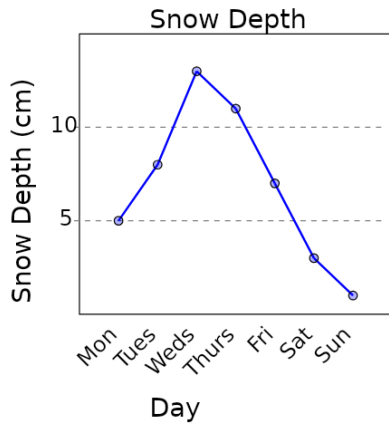
D

Girls / Soccer



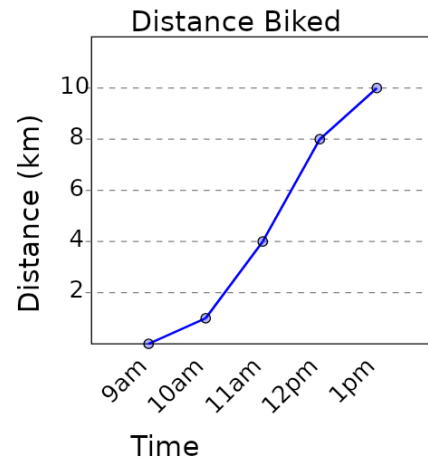
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31 What is the difference in snow depth between Weds and Sun?



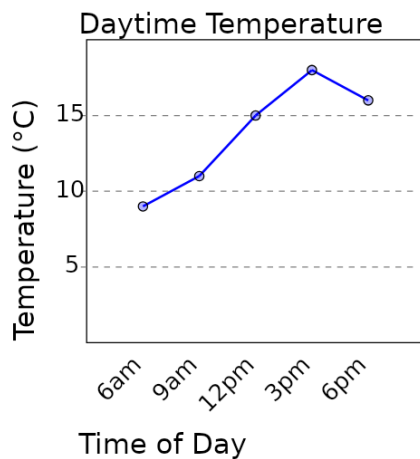
A 12	B 16	C 4
D 7	E 8	F 18

32 What is the total distance for 10am and 9am?



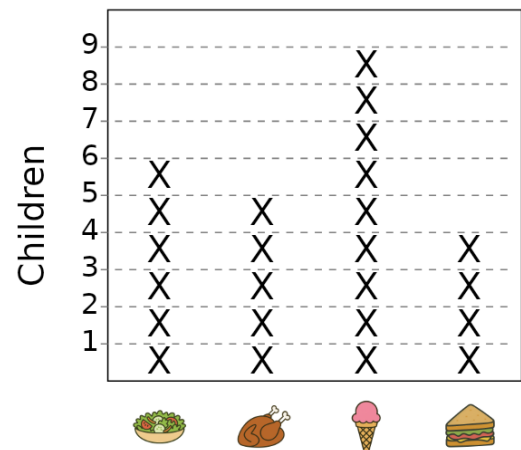
A 1	B 7	C 5
D 3	E 8	

33 What is the total temperature?

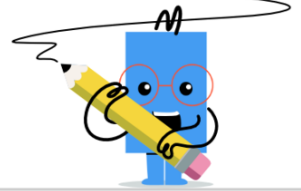


A 73	B 72	C 64
D 69	E 63	F 71

34 How many kids like chicken as a food?

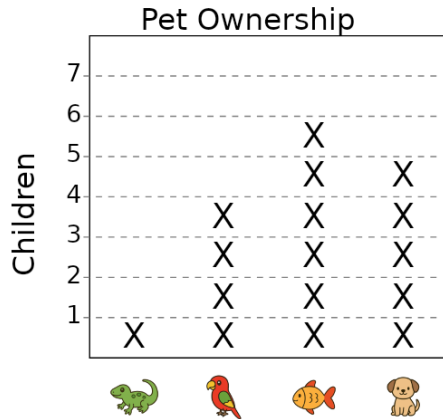


A 0	B 1	C 9
D 4	E 8	F 5



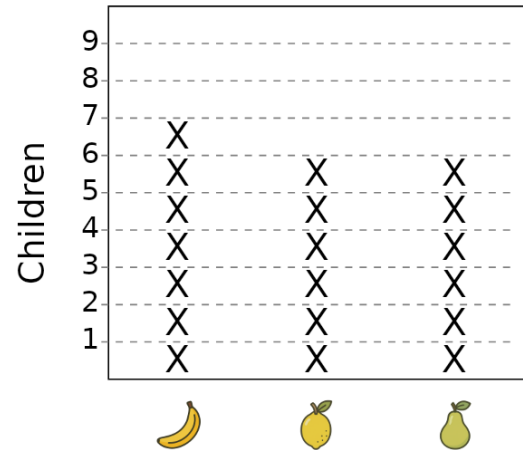
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35 How many more kids have a dog than a lizard as a pet?



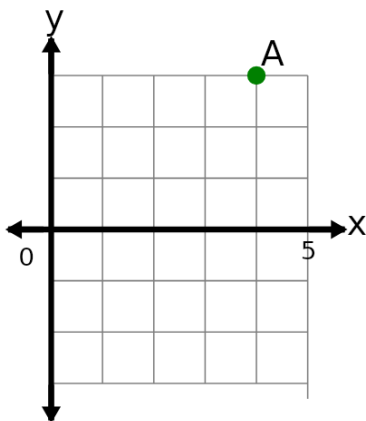
- | | | |
|--------|---------|--------|
| A
0 | B
11 | C
4 |
| D
1 | E
2 | |

36 How many total children were surveyed?



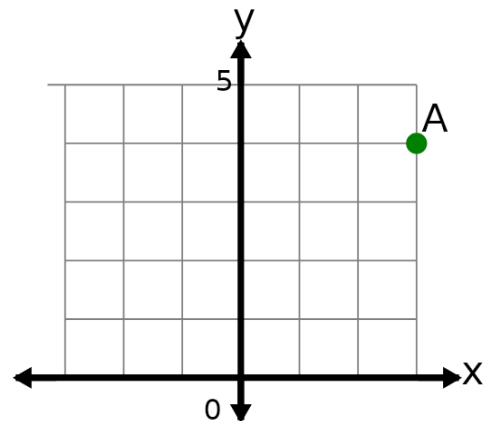
- | | | |
|---------|---------|---------|
| A
26 | B
25 | C
15 |
| D
12 | E
16 | F
19 |

37 Identify the coordinates of the point labelled 'A'



- | | | |
|-------------|-------------|-------------|
| A
(3,-4) | B
(-4,3) | C
(4,3) |
| D
(3,4) | E
(-3,4) | F
(4,-3) |

38 Identify the values of 'x' and 'y' for the point labelled 'A'



- | | | |
|----------------------|----------------------|---------------------|
| A
$x = 4, y = -3$ | B
$x = -3, y = 4$ | C
$x = 4, y = 3$ |
| D
$x = 3, y = -4$ | E
$x = 3, y = 4$ | F
$x = 3, y = 5$ |