

YEAR 7 Algebra Calculator Allowed Test 4

Numeracy Short Test

Time Allowed:
Time Remaining:

20min
00s
19min
52s

Finish Test

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Question 1 of 16

Next

A pattern is formed by beginning with 5 and doubling the number each time.



What is the fifth number in this pattern?

Please type your answer here...

Submit

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Question 2 of 16

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Which set of numbers does **not** have an average (mean) of 36?



☐ 28, 30, 31, 55

☐ 36, 36, 36, 36, 36

☐ 34, 38, 35, 37, 31, 41

☐ 29, 36, 39, 36, 30, 36, 39

06s

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Question 3 of 16

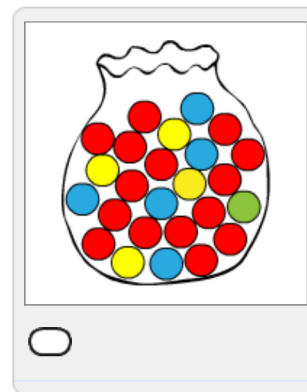
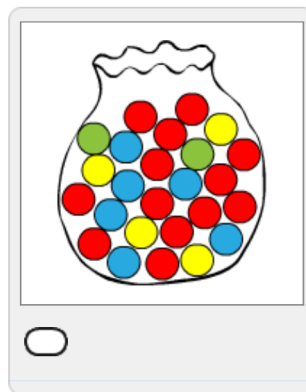
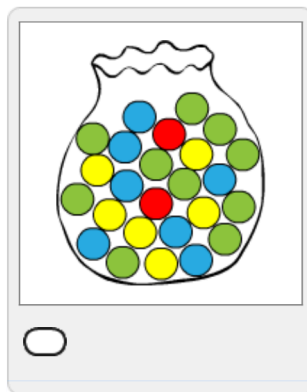
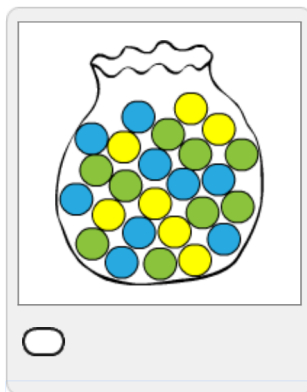
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Tibor made this correct statement about his bag of marbles:

'The chance of choosing a red marble from the bag is unlikely but not impossible.'

Which could be Tibor's bag of marbles?



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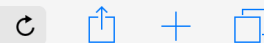
Next

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Time Remaining: 00s
19min 00s

Finish Test

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A number of tea-drinkers were asked if they preferred their tea black or white and with or without sugar. Some of the results appear in the table.

	Black tea	White tea	Total
With sugar	38		62
Without sugar			71
Total		75	



How many more people preferred white tea with sugar than black tea without sugar?

Please type your answer here...

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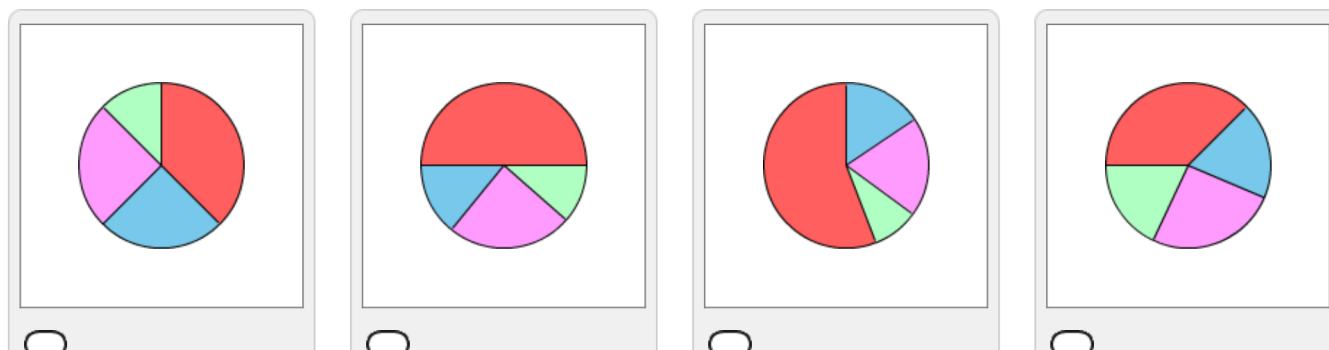
Next

A table has been drawn up to show the information collected about children's favourite colours.

Children's favourite colours	
Favourite colour	Number of children
Red	30
Blue	20
Pink	20
Green	10

A sector graph was then drawn to illustrate the information.

Which is the correct sector graph?



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Time Remaining: 00s
18min 46s

Finish Test

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These numbers form a pattern,
but one number is missing:
3, 5, 9, ?, 33, 65



What is the missing number?

Please type your answer here...

Submit

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This table has been drawn to show the number of hours Hayley spends watching television of an evening.

Hayley's television viewing	
Day	Number of hours
Monday	5
Tuesday	2
Wednesday	3
Thursday	1½
Friday	4½



What is the average time Hayley spends watching television of an evening?

☐ 3 h

☐ 3 h 5 min

☐ 3 h 12 min

☐ 3 h 20 min

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Question 8 of 16

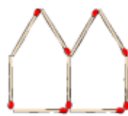
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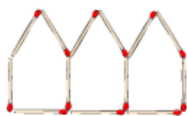
These figures of huts have been made with matchsticks.



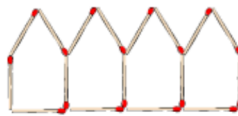
1 hut



2 huts



3 huts



4 huts

If h is the number of huts and m the number of matchsticks needed, which could be the rule connecting h and m ?

$$m = 1 + 4 \times h$$

☐

$$m = 5 + 4 \times h$$

☐

$$h = 1 + 4 \times m$$

☐

$$h = 5 + 4 \times m$$

☐

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The statement: 'The chance of rain in the coming week is fifty-fifty' was made by a weather presenter on television.



Which is correct?

☐ If it rains on the first day of the week, it won't rain on the second.

☐ Half of the days will be fine and half will be wet.

☐ It might rain one day this week but be fine every other day.

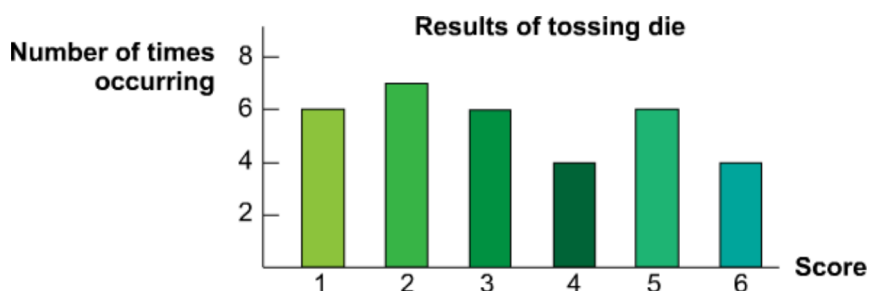
☐ If the first few days are fine, it is sure to rain on the last few days.

The results of an experiment using tosses of a die are recorded in a table.

Results of tossing die	
Score	Number of times occurring
1	6
2	7
3	6
4	5
5	6
6	4



The information from the table was then put into a graph, but the number of times one of the scores occurred was wrong on the graph.



Which score is wrong?

☐ 2

☐ 3

☐ 4

☐ 5

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Time Remaining: 00s
17min 48s

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This table has been drawn up to show the number of times each mark was scored in a test.

Score	Frequency
4	3
5	5
6	7
7	9
8	6
9	4
10	2

Which score occurred most often?

☐ 6

☐ 7

☐ 9

☐ 10

••••• YES OPTUS 10:02 AM 94%

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Time Allowed: 20min
Time Remaining: 00s
17min 39s

Finish Test

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Sofia has drawn a pictograph to show the number of people visiting her in hospital.

Sofia's Hospital Visitors

Which statement is correct?

☐ More people visited on Friday than on Monday.

☐ Fewer people visited on Tuesday than on any other day.

☐ More people visited on the weekend than during the week.

☐ The number who visited on Thursday is equal to the number who visited on Monday and Wednesday.

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Time Allowed:
Time Remaining:

20min
00s
17min
30s

Finish Test

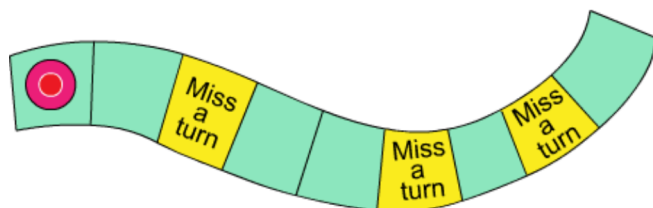
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

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Niamh is playing a board game with her cousin. The diagram shows Niamh's counter on the board and the squares in front of it.



Niamh throws a single die and moves forward the number of squares according to the number on the die. What is the chance that Niamh will miss her next turn?

☐ 1 in 6

☐ 3 in 8

☐ 1 in 3

☐ 1 in 2

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Time Allowed:
Time Remaining:

20min
00s
17min
24s

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A rule for the number of pins (p) needed to complete a pattern involving a number of squares (s) is $p = 7 \times s - 5$.

Which table does **not** contain pairs of numbers that obey this rule?

s	1	2	3
p	2	9	16

☐

s	5	10	15
p	10	75	110

☐

s	4	6	8
p	23	37	51

☐

s	7	9	11
p	44	58	72

☐

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Time Remaining: 17min 17s

Finish Test

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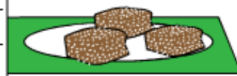
Question 15 of 16

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A group of women were asked how many lamingtons they had each eaten at a café.
The results are shown in the table.

Lamingtons eaten by women's group	
Number of lamingtons	Number of women
0	3
1	8
2	6
3	5
4	3
5	1



How many lamingtons were eaten by the women?

Please type your answer here...

Submit

••••• YES OPTUS 10:02 AM exceltestzone.com.au 94%

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Time Allowed: 20min 00s
Time Remaining: 17min 06s

Finish Test

12345678910111213141516

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Ryo has an old oven that only shows temperatures in degrees Fahrenheit (°F). He has drawn up a graph so that he can change temperatures in Celsius (°C) to temperatures in Fahrenheit.

Temperature conversion graph

A recipe calls for the oven to be heated to 180° Celsius. At approximately what temperature should Ryo set his oven?

30°F

80°F

180°F

360°F

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