••○○○ YES OPTUS 🛜   10:15 AM   🌟 72% 🔋

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YEAR 7 Algebra Non-calculator Test 1
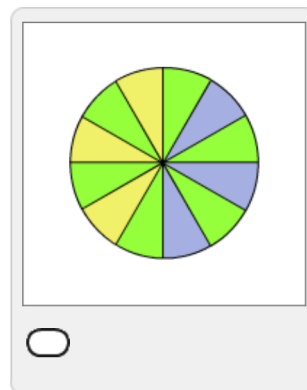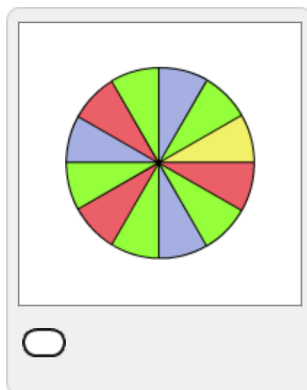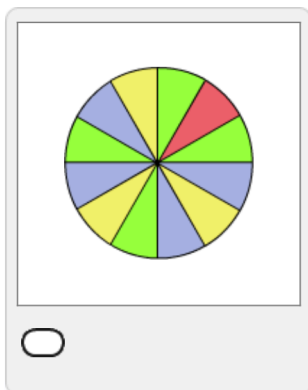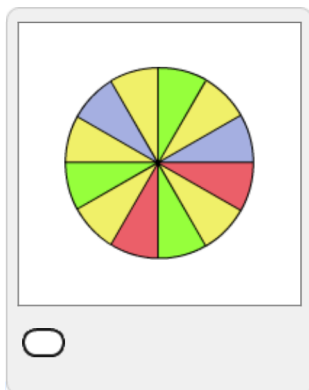## Numeracy Short Test

Time Allowed: **20min 00s**
Time Remaining: **19min 56s**

Finish Test

Question 1 of 16

Next

Which spinner has a 1 in 3 chance of landing on green?

◯   ◯   ◯   ◯

Flag this question to revisit later: ○

Next

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Numeracy Short Test

Time Remaining: 19min 46s

Question 2 of 16

Previous   **Next**

Write the next number in the pattern:

993, 995, 997, 999, _____

Submit

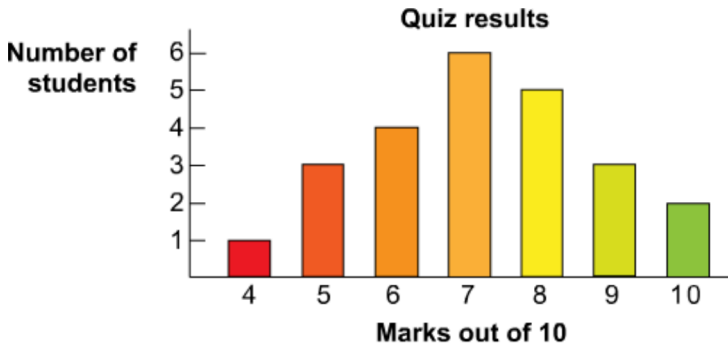*Flag this question to revisit later:* ○

Previous   **Next**

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Question 3 of 16

The graph shows the results scored by students in a quick quiz.

Quiz results

Number of students (vertical axis), Marks out of 10 (horizontal axis)

How many students did the quiz?

[   ]   **Submit**

Flag this question to revisit later: ○

Previous   Next

Question 4 of 16

Freya drew up this table to show the results when two dice are tossed together and the numbers displayed on their uppermost faces are added together.

+	1	2	3	4	5	6
1	2	3	4	5	6	7
2	3	4	5	6	7	8
3	4	5	6	7	8	9
4	5	6	7	8	9	10
5	6	7	8	9	10	11
6	7	8	9	10	11	12

Which statement is correct?

○ There is only one way in which a 3 can be scored.

○ There are more ways to score a 6 than any other number.

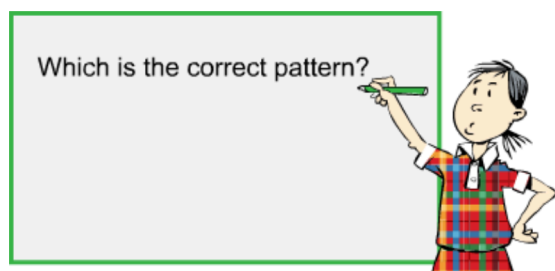○ There are six ways of scoring a 5.

○ There is always an even number of ways of scoring an odd number.

Question 5 of 16

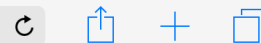Olivia wrote down the first four numbers of a pattern that began with 98 and subtracted 7 each time.

Which is the correct pattern?

◯ 98, 91, 85, 78 . . .

◯ 98, 91, 84, 78 . . .

◯ 98, 91, 85, 77 . . .

◯ 98, 91, 84, 77 . . .

•• ○○○ YES OPTUS 📶   10:16 AM   ⚹ 72% 🔋

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YEAR 7 Algebra Non-calculator Test 1
Numeracy Short Test

Time Allowed: 20min 00s
Time Remaining: 19min 08s

Finish Test

Question 6 of 16

A hat holds five red, four blue and three yellow tickets. If one ticket is selected at random, what is the chance that it is red?

◯ 1 in 3   ◯ 5 in 7   ◯ 5 in 12   ◯ 1 in 5

●●○○○ YES OPTUS 📶   10:16 AM   ⚡ 72% 🔋

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Numeracy Short Test   Time Remaining: **18min 59s**   Finish Test
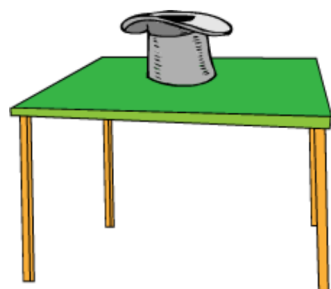
Question 7 of 16

Previous   Next

What is the ninth number in the number pattern that begins with 4 and goes up by 3 each time?

[ ]   Submit

Flag this question to revisit later: ○   Previous   Next

●●○○○ YES OPTUS 📶   10:16 AM   ⚡ 72% 🔋

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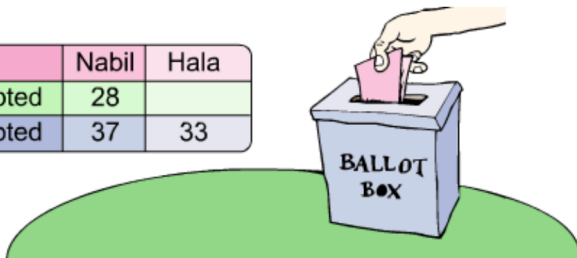
Question 8 of 16

Previous   Next

Two candidates, Nabil and Hala, stood for year representative. Some of the results of the vote are shown in the table, but the number of girls who voted for Hala is missing.

	Nabil	Hala
Girls voted	28	
Boys voted	37	33

If 125 students voted altogether, how many girls voted for Hala?

[Please type your answer here...]   Submit

Flag this question to revisit later: ○   Previous   Next

Question 9 of 16

The average (mean) of a set of nine scores is 6.
A score of 8 is included to make ten scores.

Which statement is correct?

◯ The average will decrease.

◯ The average will increase.

◯ The average will stay the same.

◯ There is not enough information to decide what will happen to the average.

Question 10 of 16

Some of the pairs of numbers in a pattern are given in the table.

1st number	2	4	6	8	10	12
2nd number	4	7	10	13	16	19

Which rule is used to find the second number?

◯ Double the first number.

◯ Multiply the first number by 3 and then subtract 2.

◯ Halve the first number, multiply by 3 and add 1.

◯ Subtract 1 from the first number and then multiply by 4.

Flag this question to revisit later: ◦

A fair coin is tossed three times and shows heads all three times.

If the coin is tossed again, which statement correctly completes the statement:
'The chance of getting a head on the fourth toss is …'?

○ fifty-fifty.

○ small because getting four heads in a row is unlikely.

○ large because the other tosses were heads so this one is likely to be heads too.

○ unable to be calculated as there is not enough information.

Question 12 of 16

Previous Next

A pie chart was drawn to show the different places holidays were taken by employees of a company.
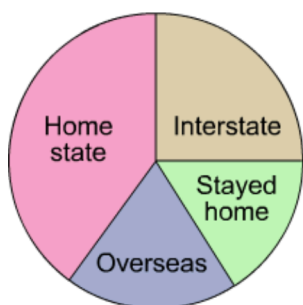
If the company had 180 employees, how many holidayed interstate?

Please type your answer here... Submit

Flag this question to revisit later: ○

Previous Next

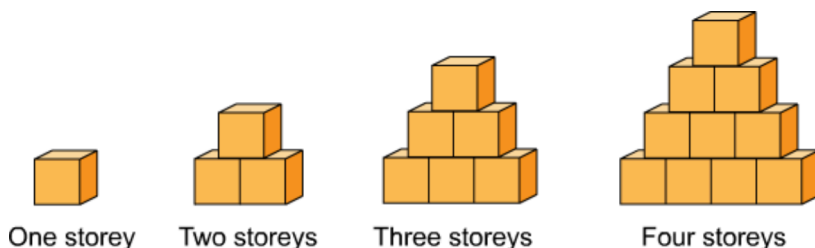## Question 13 of 16

Previous   Next

Levi has some building blocks. Each block is a cube of side 10 cm. Levi has been building towers with the blocks.

One storey   Two storeys   Three storeys   Four storeys

The diagram shows blocks of one, two, three and four storeys.

How many blocks will Levi need to build a 10-storey tower?

- ⬭ 10
- ⬭ 15
- ⬭ 45
- ⬭ 55

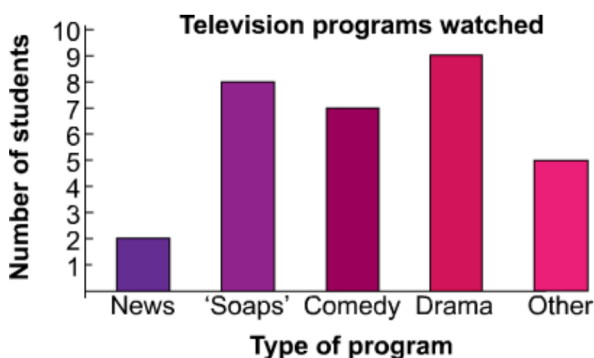*Flag this question to revisit later:* ○

Previous   Next

Question 14 of 16

Previous   Next

Students in year 7 were asked what type of television program they watched most often. The results are shown in the graph.

If a student was chosen at random from the surveyed group what is the chance that he or she watched comedies the most?

- ⬭ 7 in 9
- ⬭ 7 in 10
- ⬭ 7 in 24
- ⬭ 7 in 31

Flag this question to revisit later: ○

Previous   Next

YEAR 7 Algebra Non-calculator Test 1
Numeracy Short Test

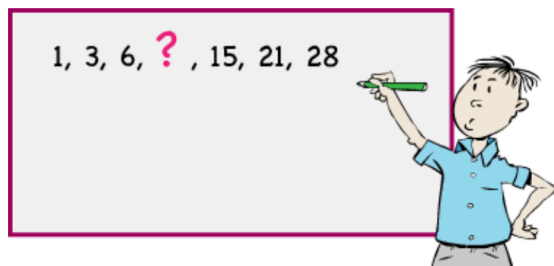Time Allowed: 20min 00s
Time Remaining: 17min 59s

Finish Test

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

Question 15 of 16

Previous **Next**

Bhavan wrote down some of the numbers in a pattern, but the fourth number was missing.

1, 3, 6, **?** , 15, 21, 28

What is the number missing from the pattern?

Please type your answer here...

Submit

Flag this question to revisit later: ○

Previous **Next**

YEAR 7 Algebra Non-calculator Test 1
Numeracy Short Test

Time Allowed: 20min 00s
Time Remaining: 17min 46s

Finish Test

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

Question 16 of 16

Previous **Finish Test**

Johanna has a stall at the local market where she sells coffee tables that she has made. The graph shows the amount of money she receives for sales of her tables and the amount it costs to make them.

Sales of coffee tables

Amount
- $1600
- $1400
- $1200
- $1000
- $800
- $600
- $400
- $200

Key
— Sales
— Expenses

1 2 3 4 5 6 7 8 9   **Number sold**

In a week that she sells seven coffee tables, what does Johanna make?

○ A profit of $225   ○ A profit of $300   ○ A loss of $300   ○ A loss of $175

Flag this question to revisit later: ○

Previous **Finish Test**