

YEAR 7 Numeracy Calculator Allowed Test 2

Sample Test

Time Allowed: 40min
Time Remaining: 00s
37min 38s

Finish Test

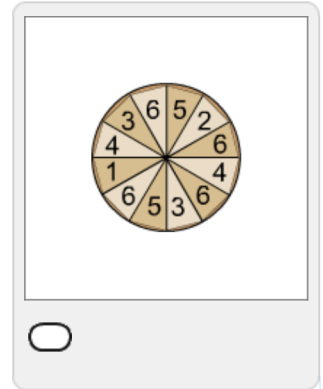
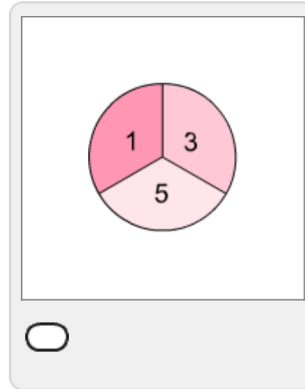
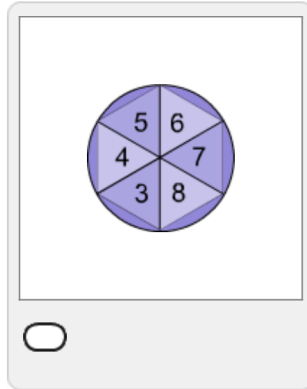
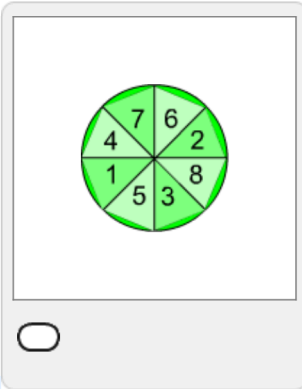
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Which spinner has a one in three chance of landing on a number greater than five?



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When Raffi and Chiara started their business, Chiara invested \$15 000. This was 60% of the total initial investment.



How much money was initially invested in the business?

☐ \$90 000

☐ \$25 000

☐ \$24 000

☐ \$9000

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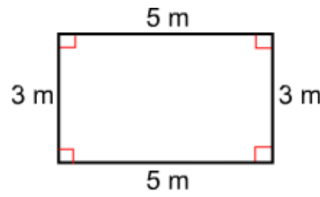
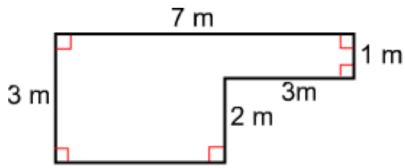
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Consider these two shapes:



(Not to scale)

Which statement is correct?

- ☐ The perimeters of the two shapes are the same and the areas are also the same.
- ☐ The perimeters of the two shapes are the same but the areas are different.
- ☐ The areas of the two shapes are the same but the perimeters are different.
- ☐ Both the perimeters and the areas of the two shapes are different.

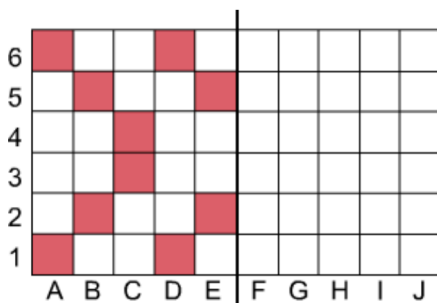
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A design has been created by shading some squares on a grid. Only half of the pattern has been completed. The pattern is symmetrical about the black vertical line.



When the design is completed, which square will not be shaded?

- ☐ F3
- ☐ G1
- ☐ H4
- ☐ I5

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When drawing up this table, Annabel used a rule linking the first number, x , and the second number, y :

x	1	2	3	4	5
y	17	42	67	92	117



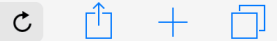
What rule might Annabel have used?

$$y = x + 16$$

$$y = 17 \times x$$

$$y = 15 \times x + 2$$

$$y = 25 \times x - 8$$



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36min 55s

Finish Test

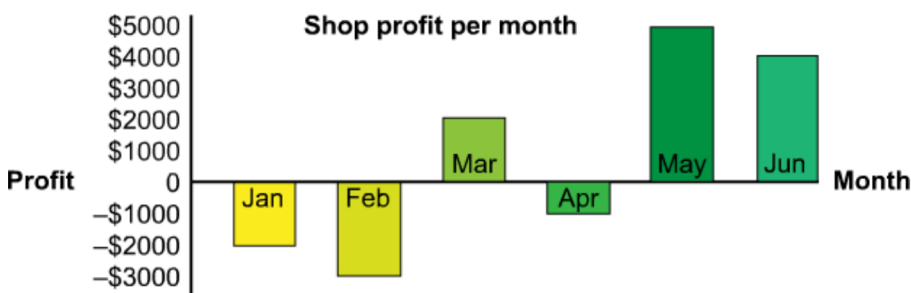
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The graph shows a shop's profit for the first six months of the year.



In what month did the shop have the greatest loss?

☐ February

☐ March

☐ April

☐ May

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36min 48s

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A dam holds 13.5 megalitres of water when full.



If water flows from the dam at the rate of 5 litres per second, approximately how long will it take to empty the dam (assuming no more water runs into it)?

☐ one day

☐ one week

☐ one month

☐ one year

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Sample Test

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Time Remaining: 00s
36min 41s

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Which is the best buy?



☐ 600 mL for \$2.25

☐ 2 L for \$7.20

☐ 3 L for \$10.50

☐ 5 L for \$17.75

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Sample Test

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36min 36s

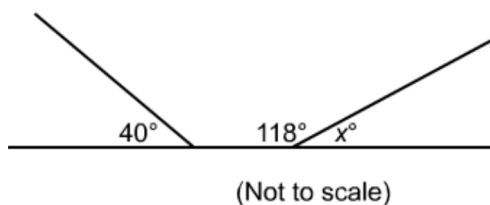
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What is the value of x ?

☐ 78

☐ 62

☐ 40

☐ 22

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Julia wrote out the first four terms (numbers) in a number pattern that began with 432 and subtracted 27 each time:



What is the seventeenth term in this pattern?

Please type your answer here...

Submit

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Sample Test

40min
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Gaynor needs to catch a bus at Tern Close to get to the station in time to catch a train that is due to leave at twenty to nine.

Bus timetable for Birdtown						
Depot	7:30	7:40	7:55	8:10	8:20	8:30
Eagle St	7:35	7:45	8:00	8:15	8:25	8:35
Tern Close	7:42	7:52	8:07	8:22	8:32	8:42
Heron Rd	7:51	8:01	8:16	8:29	8:42	8:52
Plover Place	7:57	8:07	8:22	8:36	8:50	9:00
Station	8:02	8:12	8:27	8:41	8:55	9:05

What is the latest time that Gaynor can leave home if it takes her 8 minutes to walk to the bus stop?

☐ 7:59

☐ 8:14

☐ 8:30

☐ 8:34

••••• YES OPTUS 9:44 AM exceltestzone.com.au 90%

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Sample Test

Time Allowed: 40min
Time Remaining: 00s 36min 12s

Finish Test

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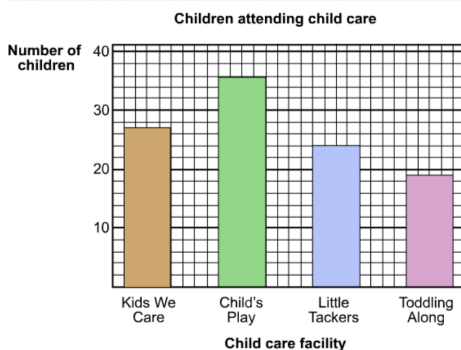
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Information about the number of children attending the local child care facilities was collected by a community group. The results are shown in the table.

Children attending child care	
Facility	Number of children
Kids We Care	27
Child's Play	36
Little Tackers	22
Toddling Along	19

The results were also shown in a graph, but there was a mistake in the graph.



For which child care facility is the graph wrong?

☐ Kids We Care

☐ Child's Play

☐ Little Tackers

☐ Toddling Along

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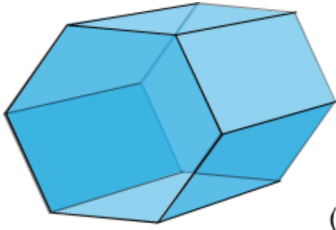
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The diagram shows a hexagonal prism. Each end of the prism is a regular hexagon with sides of length 5 cm. The prism is 9 cm long. The area of each hexagon is 65 cm^2 .



(Not to scale)

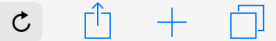
What is the total area of all the faces of the prism?

☐ 480 cm^2

☐ 400 cm^2

☐ 335 cm^2

☐ 175 cm^2



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Time Allowed: 40min
Time Remaining: 00s
35min 53s

Finish Test

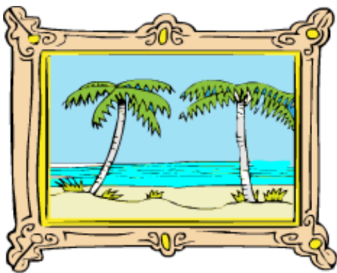
- 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28
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The value of a painting has increased by 300%.



If the value of the painting was \$2000, what is its value now?

☐ \$2600

☐ \$6000

☐ \$8000

☐ \$60 000

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12345678910111213141516171819202122232425262728

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What is the highest common factor of 126 and 168?

☐ 6

☐ 18

☐ 42

☐ 56

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Time Remaining: 35m 43s

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An unusual die has shapes on each of its six faces instead of numbers.

There is a fifty-fifty chance of throwing a with this die and it is unlikely, but not impossible, to throw a .

Which could be the net of this die?