

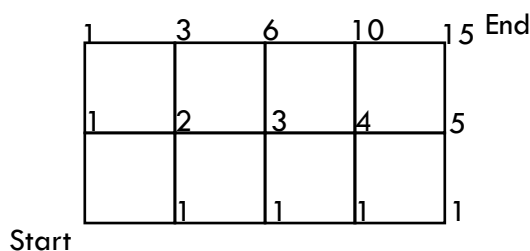
## International SoM Contest 2025 Grade One Solutions

- 1) **C**      $2 + 8 + 3 + 7 + 5$   
 $= 10 + 10 + 5$   
 $= 25$
- 2) **A**      $9 + 3 + 3 - 6 - 6$   
 $= 9 - 6 + 3 + 3 - 6$   
 $= 3 + 0$   
 $= 3$
- 3) **C**     Half of six is three because  $3 + 3 = 6$ , so Charlotte give away three cookies. Therefore, she has  $6 - 3 = 3$  cookies left.
- 4) **C**     The pattern switches between a number and the letter Z, where every number is two larger than the last. Therefore, the next term is  $5 + 2 = 7$ .
- 5) **C**     The pet which is not a dog is a cat, so the other one is a dog.
- 6) **A**     43534 is the only option which reads the same forwards and backwards.
- 7) **A**     **First box:** Put 4 lightbulbs in the first box.  
Now,  $12 - 4 = 8$  lightbulbs are left.  
**Second box:** Put 4 lightbulbs in the second box.  
Now,  $8 - 4 = 4$  lightbulbs are left.  
**Third box:** Put the last 4 lightbulbs in the third box.  
Now,  $4 - 4 = 0$  lightbulbs are left.
- 8) **D**     Tang is 3 years older than his 2 year-old sister. Therefore, Tang is  $2 + 3 = 5$  years old.
- 9) **C**     Rephrase: All three friends caught a fish except one. Therefore,  $3 - 1 = 2$  friends caught a fish.
- 10) **B**     To get 8 pieces of bread, Heidi needs to make 7 parallel cuts.
- 11) **D**     **First scoop:** 15 mL. Now she has 15 mL.  
**Second scoop:** Add another 15 mL. Now she has  $15 + 15 = 30$  mL.  
**Third scoop:** Add another 15 mL. Now she has  $30 + 15 = 45$  mL.  
**Fourth scoop:** Add another 15 mL. Now she has  $45 + 15 = 60$  mL.
- 12) **B**     Lola started reading at the top of page 11, meaning she didn't read 10 pages. Therefore, she read  $27 - 10 = 17$  pages.
- 13) **B**     If Rose passes the person in second place there will be one person in front of her, the person in first place. Therefore, she will finish in the second place!
- 14) **B**     Between all three friends there are a total of  $7 + 3 + 2 = 12$  crayons.  
Twelve crayons divided by three friends is  $12 \div 3 = 4$  crayons for each friend.

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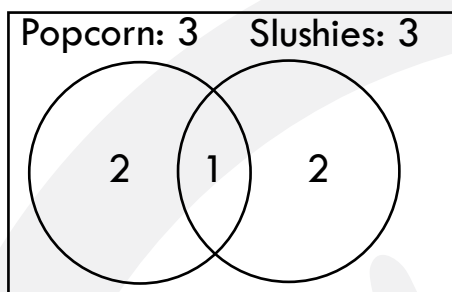
15) **A**  $35 - 2 - 7 - 3 - 10$   
 $= 35 - 22$   
 $= 13$

- 16) **A** The number of pathways that Tim's friends have to take to each intersecion is shown in the diagram. There are 15 pathways.



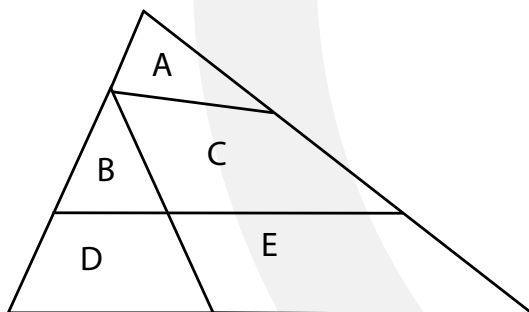
- 17) **A** There are 5 people in total. However, if you add the 3 people that bought popcorn to the 3 people that bought slushies, it gives a total of  $3 + 3 = 6$  people.

Total: 5



Therefore,  $6 - 5 = 1$  person was counted twice, one person bought both.

- 18) **C** Work backwards from December 8th: one week before is Decemebr 1st, three days after December 1st is December 4th. Therefore, Cole's flight leaves on December 4th.
- 19) **C** Each cube has six faces, however the two faces where the cubes meet aren't painted. Therefore,  $6 + 6 - 2 = 10$  faces are painted in total.
- 20) **A** Label each region of the diagram and use a chart to help count:



# of Letters	Name of Triangles	# of Triangles
1	A, B	2
2	BD	1
3	ABC	1
5	ABCDE	1
Total:		5