

Opportunity Class Placement Test

Thinking Skills

Explained answers for Practice Test 3

Janison.

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- 1 The third meeting was 12 days after the first meeting. Since this is 2 days less than 2 weeks, the day of the week must have been 2 before Tuesday, which is Sunday. So, **D** is the correct answer.
- 2 Cecilia will go to the stand on any of the days where lemon or grape juice are for sale. These days are Monday, Tuesday, Wednesday and Friday, so it is only on Thursday that Cecilia will not visit the juice stand. So, **C** is the correct answer.
- 3 Medika's claim will be supported by any statement that shows that there is a benefit gained by going to Wagga Wagga. If it is true that languages are easier to learn if you practise speaking them with other people, then being in a place with many people who speak the language would be a good idea. So, **D** is the correct answer.
- 4 Piece 1 must pair with piece 6 as the other pieces have too many sections.
Piece 2 must pair with piece 5.
Piece 3 must pair with piece 4.
Therefore, **B** is the correct answer.
- 5 Simon is assuming that he would see the same proportion of people who swim regularly among his friends as is the case in the country as a whole. It may be the case that the proportions of people who swim regularly differ for different parts of the country. For example, people living near the coast may be more likely to swim regularly than those who live inland. Therefore, **D** is the correct answer.
- 6 The information provided tells us that the food is on a lower level than both the water bowl. Therefore, the food must be on the lowest level and so **B** is the correct answer.
- 7 Since he can obtain a green robot from his friend, John must buy a pack that contains a red robot. Of the two packs that contain a red robot only pack 2 contains the pink robot that John will need to swap with his friend, so **B** is the correct answer.
- 8 Melanie has observed that the reduction in the number of fish in the lake has happened at the same time as the amount of pollution in the lake has increased. While it may be true that one of these is affecting the other, it is not certain that the increase in pollution is causing the reduction in the number of fish. Another possible explanation for the reduction is that more people might be fishing from the lake, so **D** is the correct answer.
- 9 The order in which the three plants bloomed must be:

bromeliad	wax plant geranium	guppy plant
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The plant that bloomed a day before any of the others must be the bromeliad, so **D** is the correct answer.

- 10 The shapes pair up as shown in the diagram below:

1		2	3
			4
5	6	7	8
9		10	11

Set 1

11		6	5
3	1		7
	2	9	
10		8	4

Set 2

There are 5 shapes in Set 2 that are not identical to a shape in Set 1, so **D** is the correct answer.

- 11 The gardener's claim will be supported by a statement that shows that talking to plants provides a benefit. If it is true that talking to plants makes people more likely to notice details about the plant's health, then this would be beneficial, so **A** is the correct answer.
- 12 If Katelyn is not driving then the two people in the back would be Katelyn and Talia. In this case, Jimmy would have to be sitting beside Andrea, which we are told is not the case. Therefore, Katelyn must be driving and so **C** is the correct answer.
- 13 Comparing the scores for TOO and HOOT shows that H must have a value of 2. If the value of O is more than 1 then it would not be possible for TOO to only score 4. Therefore, O has a value of 1 and T must have a value of 2. The score for TWO then shows that W must have a value of 3. The score for THAT shows that A must have a value of 1. So THAW has a value of $2 + 2 + 1 + 3 = 8$, so **C** is the correct answer.
- 14 Iluka's calculations are based on the amount of time that it takes each shop to make his sandwich, but this ignores the amount of time that he would have to wait. If the queue at Loafing Around is very long then he may have to wait even longer to get his sandwich. Therefore, **D** is the correct answer.
- 15 Since the only children who are not going on the excursion are the ones who need to play in the soccer match, it must be the case that anyone who does not play soccer will be going on the excursion. Therefore, Maliyan's reasoning is correct. Similarly, it must be the case that anyone who is not going to the observatory will be playing in the soccer match, so Robyn's reasoning is correct. Therefore, **C** is the correct answer.
- 16 The shapes that are nearest to the friend must be the first and second ones from the first diagram. These will be seen from above as a square and a circle with another circle within it. It is Timur who has these two shapes nearest to him, so **C** is the correct answer.
- 17 If you have to score more goals than the other team to win a match, then it is not possible to win a match without scoring any goals. Since Grant Valley High School did not score a single goal in the season it must be the case that they failed to win any matches. So, **D** is the correct answer.

- 18 Tahnee is assuming that the fraction of games that were won is a good way to measure how good a player is. However, if it was the case that Jacob played against a lot of very good players and Nicole played against a lot of very weak players then it could still be the case that Jacob is the better player. So, **B** is the correct answer.

- 19 The number of classes for which the young magicians need their wands in any week are:

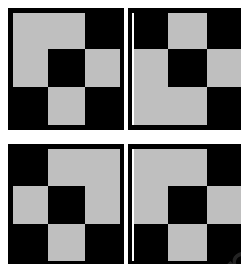
Monday	Tuesday	Wednesday	Thursday
1	2	1	1

Since they do not have classes on Wednesday, the total number for this week is $1 + 2 + 1 = 4$, so **C** is the correct answer.

- 20 The mayonnaise and chicken must be next to each other. Since the other two ingredients must not touch, it must be the case that one is below the chicken and the other is above the mayonnaise. It cannot be the lettuce above the mayonnaise, so the cheese must be the ingredient on top. So, **A** is the correct answer.

- 21 The vet's claim will be supported by a statement that shows that there is a benefit to careful handling of pets at home. Making them less afraid of people would be a benefit, so **B** is the correct answer.

- 22 The individual tiles can be seen by dividing the diagram into four equal pieces:



Each tile is black in the centre and in three of the corners, so **A** is the correct answer.

- 23 Peter is only able to pass the book to Zhang.
Any of Sam, Tim and Ursula will be able to pass the book to Fiona.
Therefore, the meeting must be between either Peter or Zhang and one of the others.
Zhang can have the book by 09:00 and can give the book to Tim, providing that he meets Tim before 11:00 (so that Tim is able to give the book to Ursula).
A meeting between Zhang and Tim at 10:30 therefore allows Fiona to receive the book today, so **C** is the correct answer.

- 24 Mr Murray has assumed that the reason that the plants did not grow must be just one of the two reasons. The fact that the winter was warmer than usual does not mean that possums would not have dug up the crocus plants, so it is not necessarily true that he should not blame the possums. Therefore, **A** is the correct answer.

- 25 The swing is taller than both the car and person and the height of the tree is more times the height of the swing than is the case in either of the first two diagrams. Although the farm shed is 3 metres tall, the truck is less than three times the height, so the truck is less than 9m tall, while the tree is approximately four times the height

of the swing and so is about 10m tall. The tree is therefore the tallest and so **C** is the correct answer.

- 26** The teacher's claim is that checking that taps are not leaking is the **most effective** way to reduce water waste at home, so this is supported by a claim that shows that leaking taps are the most significant source of water waste. So, **C** is the correct answer.
- 27** Clues 2 and 3 tell us that box W has more treasure than either box X and box Y. Since clue 1 tells us that box X has more treasure than box Z, it must be the case that box W has the most treasure.
Clue 4 must therefore enable us to work out the order of boxes X, Y and Z. We already know that box X contains more treasure than box Z, so we need to have a clue that allows us to deduce the position of box Y. If box Y contained more than box Z, but less than box X then it would not be possible to have this expressed in one clue. The clue must therefore be one of:
- Box Y contains less treasure than box Z.
 - Box Y contains more treasure than box X.
- Therefore, **A** is the correct answer.
- 28** Since the dots on opposing faces add up to five the possibilities are 0-5, 1-4 and 2-3. Since any view of the dice will show three of the faces, with no pair of opposing faces it must be the case that the visible faces contain one number from each of the three pairs. Only **B** has this property so this is the correct answer.
- 29** Tina has assumed that the set of people who loves musicals is the same as the set of people who love *Carimba!*, but the information on the advertisement only tells us that anyone who loves musicals will also love *Carimba!* This can still be true if there are people who love *Carimba!* but do not love musicals in general, so **B** is the correct answer.
- 30** Since one of Darren and Monaro must win their match it is certain that one of them will have won at least 4 of their matches and so will qualify for the second round. So, Alyssa's reasoning is correct.
If the player who loses the match between Darren and Monaro wins their final match then they will still have won 4 of their matches and so will qualify for the second round. So, Emily's reasoning is not correct.
Therefore, **A** is the correct answer.