NO.	**QUESTION**
1	Chavez uses a secret code, which she created, to communicate with her co-workers in the workplace. The code is a variation of a substitution code. A letter is encoded as the following letter in the alphabet when it first occurs in a message (A becomes B, Z becomes A). On each subsequent appearance, it becomes the next letter again (A becomes C, Z becomes B). For example: “ARE YOU AT HOME TODAY?” is encoded as BSF ZPV CU IQNG VREDA? Chavez wants to send the message “GIVE ME MY MONEY BACK” to one of her co-workers. **How will Chavez encode the message?** A. HJWF NG OZ PPOHA CBDL B. HJWF NF NZ NPOFA CBDL C. HJWF NG OZ PPOHA CDBL D. HJWF NF NZ NOPFA CBDL
2	Some Waters are Fires. All Airs are Fires. All Fires are Earths. Conclusion: I. Some Earths can be Waters II. All Airs are Earths III. Some Waters are Airs IV. Some Waters can be Earths **Based on the conclusions above, which of the following logically follows?** A. Only I, II, and III follow B. Only I, II, and IV follow C. Only III and IV follow D. All statements follow
3	

	The number of people who watch circus shows has significantly dropped as most people already have access to other entertainment modes, such as TV shows and movies on the internet. This has caused the circus industry to be in a massive downfall. Courses of action: I. Circuses should be transformed into food markets. II. Circuses should be removed and replaced with apartment areas. **Which of the following courses of action follow?** A. Only I follow B. Only II follow C. Neither I nor II follow D. Both I and II follow
4	Each of the following questions contains two statements labelled I and II. There may be a causal connection between the two statements. These two statements may have the same cause or have separate reasons. These statements might be separate causes with no connection. Read both statements and choose the correct answer from the given answer options. Statements: I. This summer has seen a significant spike in temperature, placing cows at risk of heatstroke and even death, which eventually led to lesser meat production. II. During the summer, the price of cow meat has risen significantly. A. Statement I is the cause and statement II is its effect B. Statement II is the cause and statement I is its effect C. Both statements I and II are independent causes D. Both statements I and II are effects of independent causes E. Both statements I and II are effects of some common cause
5	Blaster makes use of a mobile phone while communicating with his co-workers.

Mobile phones use the following keys for forming words when sending text messages.

2	3	4	5	6	7	8	9
ABC	DEF	GHI	JKL	MNO	PQRS	TUV	WXYZ

To form the word RED, for instance, it requires 7 to be pressed three times, 3 to be pressed twice, then 3 to be pressed once more.

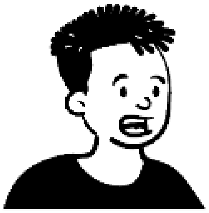
Which pair of keys is pressed the most when the word "FABRICATION" is formed by Blaster?

A. 2 and 3
B. 4 and 7
C. 8 and 6
D. 4 and 3

6

Tristan and Andrew made their own set of codes as part of their requirements for the Vietnam Computer Science Internship Program. Below is an example of how their code language works:

'Becoming Conclude Platform Approval' is written as '15@m 13!c 21!f 20@r'
'Ceremony Bulletin Pursuant Adequate' is written as '33@m 22@l 28@s 13@d'
'Portable Bachelor Cautious Alliance' is written as '13@t 26@h 27@c 13+l'
'Announce Casualty Periodic Building' is written as '13+n 33+l 11+r 15!d'



Tristan: "The code for the word "insubordinations" is 35@t."
Andrew: "No, it's actually 35@o."

Which of the following statements is true?

A. Tristan is correct
B. Andrew is correct
C. Both Tristan and Andrew are correct

	D. Neither Tristan nor Andrew are correct
7	Katy Perry assembled her band members Christine, Bea, Anthony, Michael, and Louis for a ping-pong shot challenge. Whoever shoots the most shots wins the challenge. Bea came immediately after Anthony. Christine was able to beat three people. Anthony came immediately after Christine. Michael ranked last. **What is the ranking of the whole group?** A. Christine, Louis, Anthony, Bea, Michael B. Louis, Christine, Bea, Anthony, Michael C. Louis, Christine, Anthony, Bea, Michael D. Louis, Anthony, Christine, Bea, Michael
8	Phineas and Ferb are secret scientists who communicate through a code to avoid being caught by their sister, Candice. Below is an example of their code language. 'Becoming Conclude Platform Approval' is written as '15@m 13!c 21!f 20@r' 'Ceremony Bulletin Pursuant Adequate' is written as '33@m 22@l 28@s 13@d' 'Portable Bachelor Cautious Alliance' is written as '13@t 26@h 27@c 13+l' 'Announce Casualty Periodic Building' is written as '13+n 33+l 11+r 15!d' **What is the code for the word LEGITIMATE?** A. 15!a B. 15@t C. 10+t D. 10@a
9	Bruno manufactures hand-made bags made from wool. Each bag would require 4.7m of wool to make. Last month, he was able to produce 521 hand-made bags. Just this month, he used 451.2m wool for making the bags.

How many metres of wool did he use last month?

A. 110.9m
B. 96m
C. 2,448.7m
D. 2,120.64m

10

Ashley keeps in contact with her classmates for their upcoming project presentation with a mobile phone.

Mobile phones use the following keys for forming words when sending text messages.

2	3	4	5	6	7	8	9
ABC	DEF	GHI	JKL	MNO	PQRS	TUV	WXYZ

To form the word RED, for instance, it requires 7 to be pressed three times, 3 to be pressed twice, then 3 to be pressed once more.

Ashley wants to send a message to her group mates with "IT IS OVERTIME."

Which pair of keys are pressed the least when the message is formed?

A. 7 and 3
B. 4 and 6
C. 8 and 4
D. 6 and 3

11

Each of the following questions contains two statements labelled I and II. There may be a causal connection between the two statements. These two statements may have the same cause or have separate reasons. These statements might be separate causes with no connection. Read both statements and choose the correct answer from the given answer options.

Statements:

I. Government police forces arrested rally participants for their alleged vandalism and dangerous behavioural aggression in public.

	II. Social groups and organisations gathered for a loud riot and a mass protest near the city capitol in regard to the recent election fraud speculation. A. Statement I is the cause and statement II is its effect B. Statement II is the cause and statement I is its effect C. Both statements I and II are independent causes D. Both statements I and II are effects of independent causes E. Both statements I and II are effects of some common cause
12	There is an alarming increase in total deaths among all visitors of the hot valleys of Sakaar over the past few years. Courses of action: I. Visitors should be discouraged from travelling to the valleys without wearing loose clothes and having an adequate water supply. II. Visitors who plan on going to the valleys must pass a physical examination to determine their ability to sustain the weather conditions of the said place. **Which of the following courses of action follow?** A. Only I follow B. Only II follow C. Neither I nor II follow D. Both I and II follow
13	All chickens are fish. All pork is beef. Some beef are chickens. Conclusion: I. All pork are fish II. Some pork are fish

	III. Some fish can be beef IV. All beef are fish **Based on the conclusions above, which of the following logically follows?** A. Only I and III follow B. Only I follows C. Only II follows D. Only III follows
14	Several states in Australia are trying to sell off their national parks. Ecotourism is a big draw for developers who are using it to build fancy private lodges with private access inside many well-known parks. Access to nature in national parks is one of the few ways for people of all social statuses to combat mental health problems. If our parks become more privatised, replacing campsites with more expensive places to stay, it will be hard and costly for people who need nature to have access to it. **Which among the following statements, if true, best strengthens the argument?** A. The privatisation of parks creates a social divide between the upper and lower classes. B. The privatisation of parks makes the poor who depend on nature more vulnerable to mental health problems. C. The privatisation of parks reduces public access to the wonders of mother nature. D. The privatisation of parks gives leeway to the commencement of an economic depression.
15	Decades of how big companies believe that workers are unfocused or lazy have hurt employee productivity. People are being told that productivity means anything that saves money, tightens budgets, or speeds up work. Some employers laughably call wage/salary cuts a "productivity initiative," which is the opposite of what economics says should happen. **Which among the following statements, if true, best strengthens the argument?** A. The idea of productivity is agreed upon by everyone to be a “work-only” mindset. B. The idea of productivity has been abused by the mass media. C. The idea of productivity is dubbed ruthless in the eyes of the general public. D. The idea of productivity has become manipulated to exploit workers.

16

Going to parties and making friends is a common occurrence for most adolescents. This frequent habit, however, is proven to be detrimental to a teenager's growth. They become more susceptible to falling into peer pressure, seeking validation from other people, and succumbing to others' standards instead of finding fulfilment within themselves. This has drastically increased mental health issues among teens.

Which among the following statements, if true, best weakens the argument?

A. A teenager can still suffer from mental illnesses even without socialising with others.
B. There are certain types of friends who are considerate and sensitive.
C. There has never been a case of mental health issues spreading among young adolescents yet.
D. Adults are still there to supervise young teens with regard to their mental health.

17

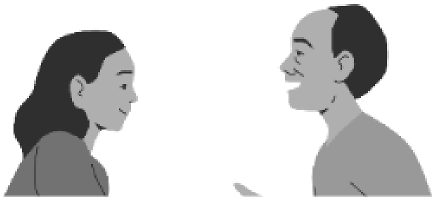
Studying abroad lets you see and learn new places and cultures. It allows you to make more culturally diverse friends and gives you a better understanding of the world as a whole, all while earning your degree. It will help you learn valuable skills, like how to speak other languages, how to become more flexible, and how to become a good problem-solver.

Which among the following statements best concludes the argument?

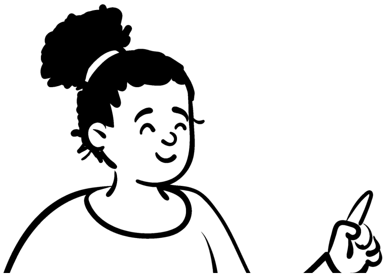
A. Studying abroad offers a wide variety of learnings for holistic growth.
B. Studying abroad makes it more likely for you to land a high-paying job.
C. Studying abroad creates unique and unforgettable moments to cherish.
D. Studying abroad is an opportunity for students to be exposed to different cultures.

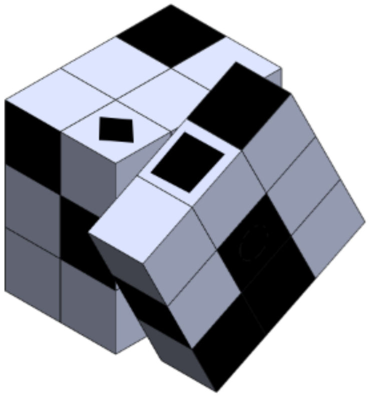
18

Kevin and Hart are academic rivals at school. They frequently question each other's answers during recitations or examinations, as they both strive to be the top student of their class. After their Chemistry test, they had an argument regarding the correct answer.

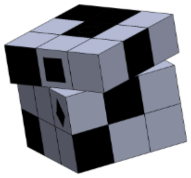


Kevin: "I am certain that my calculation for this chemical reaction is correct."

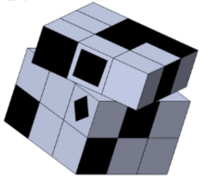
	Hart: “You’re wrong. I used the same formula you used, yet I did not get the same answer." **Which among the options best describes the flaw in Hart’s statement?** A. Hart thought Kevin was trying to make her look bad even if it wasn’t entirely the case. B. Hart personally attacked Kevin with the intent of showing that Kevin was inferior intellectually. C. Hart failed to take into account the possibility that both of their calculations might be flawed. D. Hart asserted that the formula was invalid since she didn’t have the same answer as Kevin.
19	Jessica is fond of playing basketball with her friends. This sport involves a lot of rigorous physical contact, including shoving and bumping. Her mother, Janice, begins to have reservations about her daughter’s passion for the said sport.  **Janice:** "My daughter is not playing basketball again. This sport makes her look too violent to many people.” **Which among the options best describes the flaw in Janice’s statement?** A. Janice offered a defence that adults frequently use against children. B. Janice's position was dubious because she had no sporting expertise. C. Janice exaggerated the result of playing basketball without any specific evidence. D. Janice is clueless that Jessica would be participating in activities other than basketball.
20	Which figure is the rotation of the object?



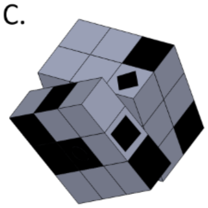
A.



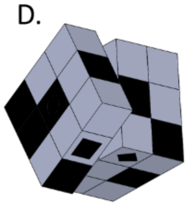
B.



C.



D.



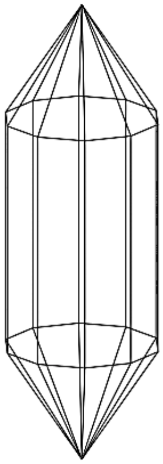
21

A, B, C, D, E, F, G and H are sitting around a circle facing the centre. A is opposite to B. E is second to the right of A and H is third to the left of C. G and B are next to each other. Either D or F are before B, but not directly.

What letter is to the right of A?

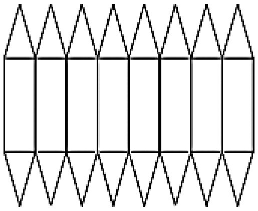
A. B
B. C
C. D
D. None of the above

22

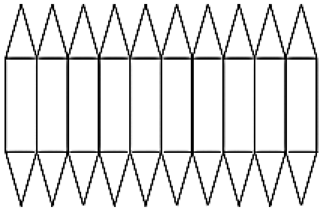


Which among the following figures, when folded, forms the 3D shape above?

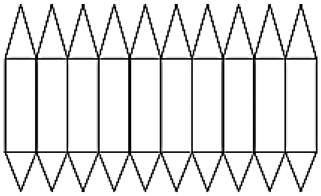
A.



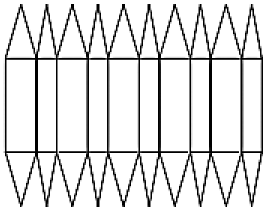
B.



C.



D.



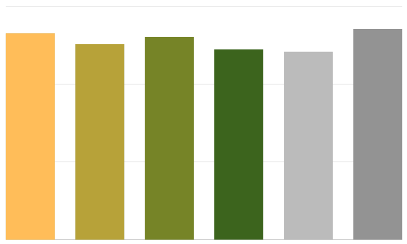
23

Jamie conducted a survey among all alumni of Scallops University from 2010 regarding their favourite music bands. The results are tallied in the table below:

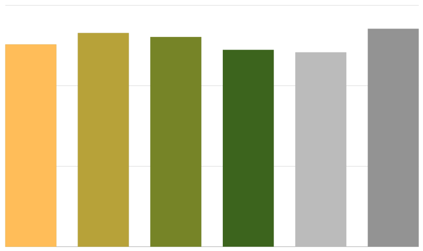
Linkin Park	**Guns n' Roses**	**Mayday Parade**	**Red Hot Chilli Pepper**	**Metallica**	**All Time Low**
1326	1256	1302	1222	1206	1353

Which of the following bar charts best represents the data in the table?

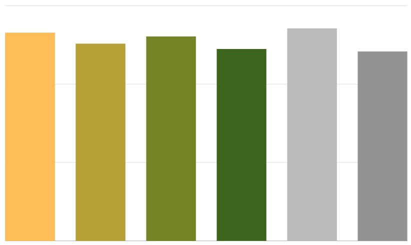
A.



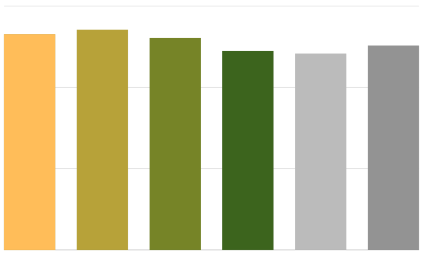
B.



C.



D.

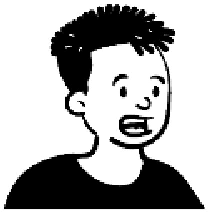


24

Franco is organising a welcome party for his father who just came home from military service. While planning for the party, he was able to list down some items that he needed to buy later on: 21 plastic chairs, 53 pieces of cookies, a television set, and a dozen eggs. For each of these items, he has various options to choose from.

ITEM	VARIATION	PRICE
Plastic Chairs	Type D	$6
	Type E	$4
	Type F	$5
Cookies	Chocolate Chip	$3
	M&M’s	$4
	Plain Cookie	$2
Television set	Samsung	$350
	LG TV	$300

Eggs	Duck Egg	$3
	Chicken Egg	$1



Franco: “I’d spend $724 if I chose the priciest variations.”

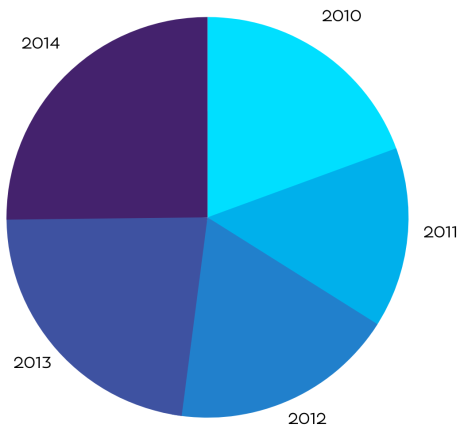
Which of the following statements is true?

A. Franco is correct.
B. Franco overstated his calculation by $10.
C. Franco understated his calculation by $10.
D. There is no sufficient data.

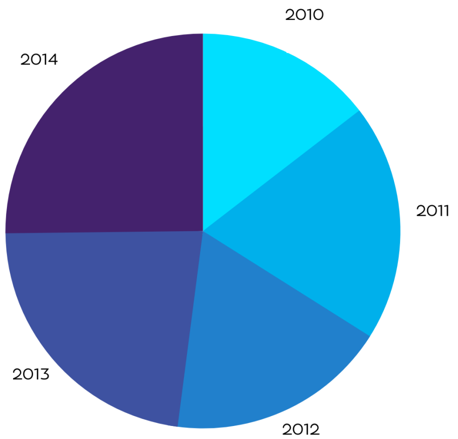
25 Moira scavenges the data she has gathered regarding the number of clients the Badayos Law Firm has accommodated from 2010 to 2014. He inputted his data on a table with an age range indicator of their clients.

AGE RANGE	2010	2011	2012	2013	2014
18-30	23	18	21	30	25
31-40	32	21	25	31	42
41-50	29	19	21	27	31
51 above	20	20	30	34	37

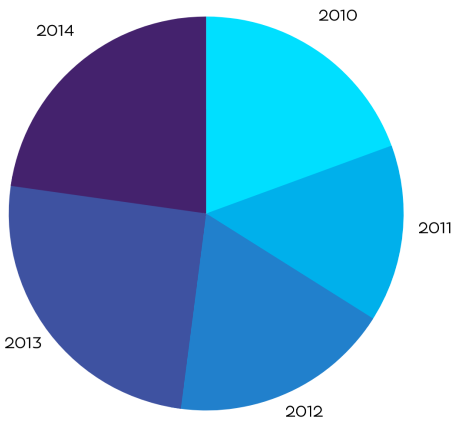
Which of the following pie charts best represents the total number of clients the firm had per year?



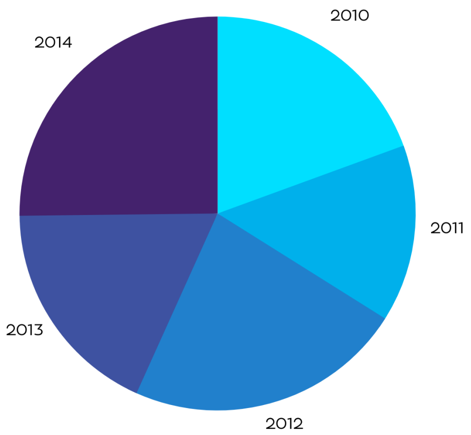
A.



B.



C.

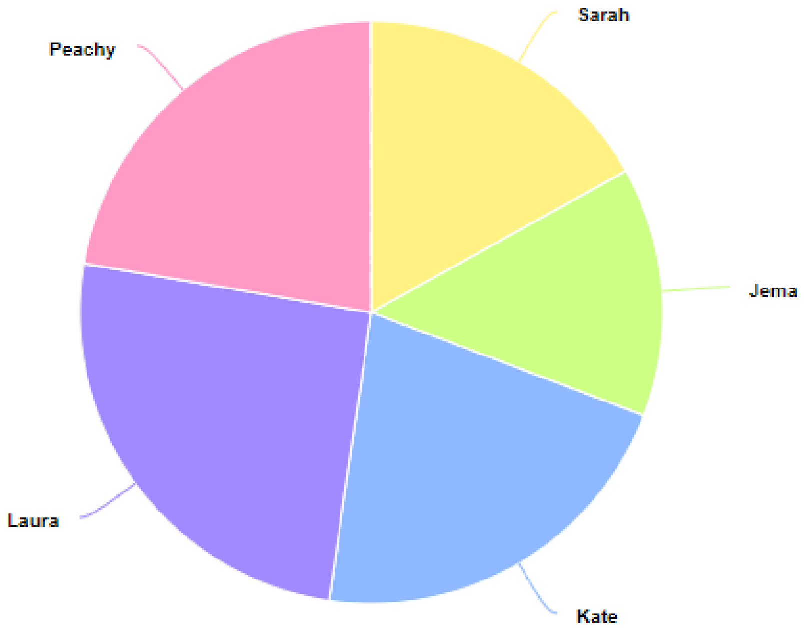


D.

26 A beauty pageant was held inside the campus, and the audience contributed 50% of the final score. The table below displays how many votes each contestant received.

Variable	Sarah	Jema	Kate	Laura	Peachy
Value	220	180	330	280	290

They transferred the data to a pie chart, but put one of the lines was placed in the wrong place.



The lines between which variables must be incorrect?

A. Laura and Peachy
B. Peachy and Sarah
C. Sarah and Jema
D. Jema and Kate
E. Kate and Laura

27 Before an upcoming race this weekend, three people who frequently join marathons wanted to see who could run the fastest. Each player got two chances to run, and each chance gave them 5 seconds. The results are listed below.

Name	Attempt 1	Attempt 2
Leonardo	10.2m	11.5m
Myra	12.4m	9.8m
Garfield	8m	13.3m

After the two attempts have been accomplished, what is the slowest speed among the three?

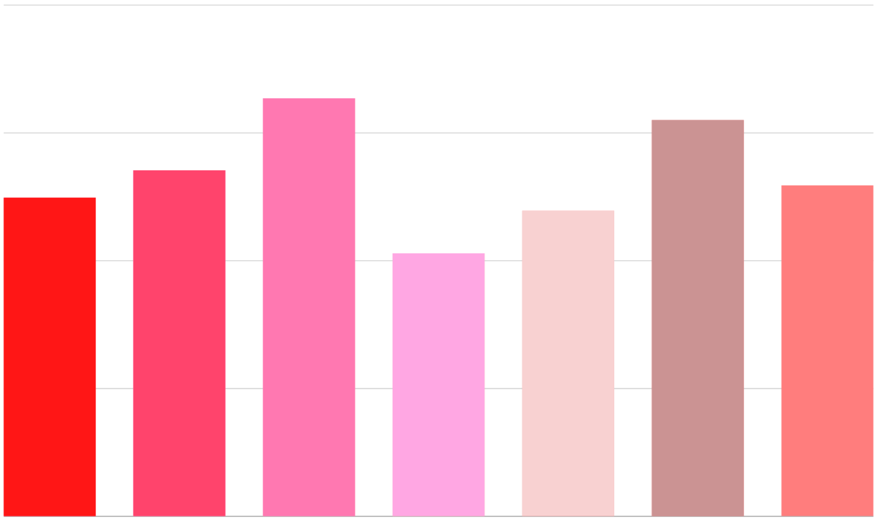
A. 4.78m/s

B. 4.26m/s

C. 4.44m/s

D. 4.34m/s

28 Boris wanted to keep track of the number of unit sales he had for his clothing store from March to September. He created a bar graph representation of the data he had gathered.



Which of the following data best matches the bar chart?

A.

March	**April**	**May**	**June**	**July**	**August**	**September**
1245	1351	1633	1026	1193	1292	1548

B.

March	**April**	**May**	**June**	**July**	**August**	**September**

1245	1633	1351	1026	1193	1548	1292

C.

March	**April**	**May**	**June**	**July**	**August**	**September**
1351	1245	1633	1026	1193	1548	1292

D.

March	**April**	**May**	**June**	**July**	**August**	**September**
1245	1351	1633	1026	1193	1548	1292

29

Marianne plans to visit Wonderland on the following dates in September: 5, 6, 8, 9, 12, 13, and 14.

One Day Ticket	**Three Day Ticket (Consecutive)**	**Eight Day Ticket (Consecutive)**
$9	$24	$65

How much is the cheapest ticket/s that Marriane can spend?

A. $65
B. $63
C. $60
D. $57

30

Rhynnel wants to build a mini-house for her dog. As she planned out her blueprint for the mini-house, she figured she needed 12 pieces of wood for the project. So far, she has found four stores online that sell exactly the quality of woods she wants.

Shop	**Price per Wood**	**Discount**

Wood Inc.	$15	25% Off Total Price
TreeBuilders	$13	Buy 10 Get 2 Free
Nature Architecture	$14	35% Off Total Price
Timber Core	$10	No discount

What is the difference between the priciest and the second cheapest options?

A. 5
B. 25.8
C. 15
D. 20.8