

NO.	QUESTION																					
1	<p>In Genovia, children can be admitted to the Royal Kindergarten Academy if they meet both of the following conditions:</p> <ol style="list-style-type: none"><li>1. The child is at least 6 years old by the time they start school.</li><li>2. They received a vaccine shot at least 17 days before the start of school.</li></ol> <p>Listed below are some applicants of the Royal Kindergarten Academy:</p> <table><thead><tr><th>Name</th><th>Date of Birth</th><th>Date of Vaccination</th></tr></thead><tbody><tr><td>Abbie</td><td>December 14, 2016</td><td>November 29, 2022</td></tr><tr><td>Bobby</td><td>June 15, 2017</td><td>November 1, 2022</td></tr><tr><td>Charlie</td><td>April 1, 2016</td><td>November 15, 2022</td></tr><tr><td>Daisy</td><td>January 25, 2017</td><td>November 10, 2022</td></tr><tr><td>Emmie</td><td>October 6, 2016</td><td>November 17, 2022</td></tr><tr><td>Fillie</td><td>March 5, 2016</td><td>December 1, 2022</td></tr></tbody></table> <p>Who among them can start school on December 15, 2022?</p> <ol style="list-style-type: none"><li>A. Abbie and Charlie</li><li>B. Booby and Daisy</li><li>C. Charlie and Emmie</li><li>D. Daisy and Fillie</li></ol>	Name	Date of Birth	Date of Vaccination	Abbie	December 14, 2016	November 29, 2022	Bobby	June 15, 2017	November 1, 2022	Charlie	April 1, 2016	November 15, 2022	Daisy	January 25, 2017	November 10, 2022	Emmie	October 6, 2016	November 17, 2022	Fillie	March 5, 2016	December 1, 2022
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2	<p>All countries must prioritise wind energy over solar energy since the amount of electricity the wind generates is so much greater than those of solar panels. Solar panels also require large amounts of land area in order to generate enough energy for human consumption while turbines require relatively less amount of land area. Furthermore, those large parcels of land dedicated to solar panels could be used instead for farming and food production.</p> <p>Assuming all are true, which among the choices below best weakens the statement above?</p> <ol style="list-style-type: none"><li>A. Solar Panels are easier to make.</li><li>B. Wind turbines cost a lot to build because they need big machines and metal parts.</li><li>C. Not every country has the right land to use wind energy.</li><li>D. A lot of people like solar energy because they hear about it in the news a lot.</li></ol>																					

3

Tinia wants to buy 7 metres of cloth for her ball gown. For convenience, she wants to buy all the fabric from one shop only.

Listed below are the different shops and their various promo discounts:

Shop Name	Price per Metre	Promo Discount
Purple Cloth Shop	\$25	5% off on all purchases
Silky Cloth Shop	\$27	Buy 1, Get 30% off on 2nd item
Fluff Cloth Shop	\$30	Buy 2, Get 70% off on 3rd item

If Tinia chooses the shop where she can spend the least amount of money, how much will she have to pay?

- A. \$160.50
- B. \$164.70
- C. \$166.25
- D. \$163.70

4

Lilo and Stitch are two old friends who have recently discovered the art of texting. They can't cope with text language, but when communicating with each other, they use a code that they invented many years ago.

The code is a substitution code with a twist. When a particular letter appears for the first time in a message, it is encoded as the next letter in the alphabet (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?

Lilo is about to text Stitch with the following message.

WE WILL COOK PASTA TOMORROW

**How will Lilo encode the word TOMORROW?**

- A. VRNOSTTA
- B. VRNSSTSZ
- C. VRNSSTTZ
- D. VRNSSTTA

5

Melanie M, an international popstar, will hold a 15-day concert in Australia from November 1 to 15. Her management team wanted to encourage more fans to attend these dates, so they offered various ticket packages shown below:

1-Day Ticket	3 Consecutive Days Ticket	5 Consecutive Days Ticket
\$65	\$120	\$175

Take note that one does not have to attend consecutive days of the concert for the ticket to be valid.

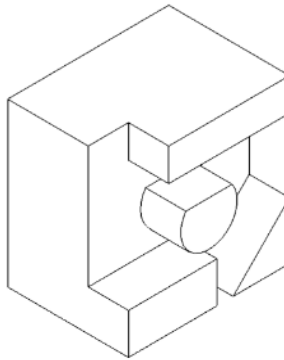
Yuri is a fan of Melanie M and she wanted to attend the concert dates on November 1,3,6,7,8,10,12, and 14.

**If Yuri wants to attend the aforementioned dates at the lowest cost, how much will she have to pay?**

- A. \$400
- B. \$405
- C. \$415
- D. \$435

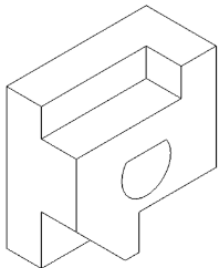
6

A piece of the puzzle is shown below:

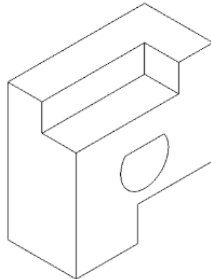


**Which one of the following pieces will fit the piece above to make a complete cube?**

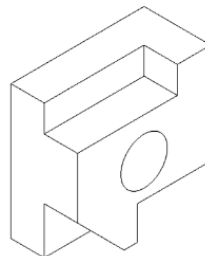
A.



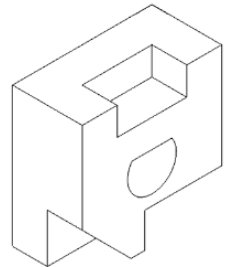
B.

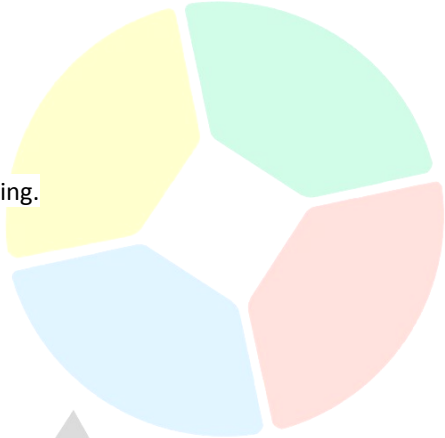


C.



D.



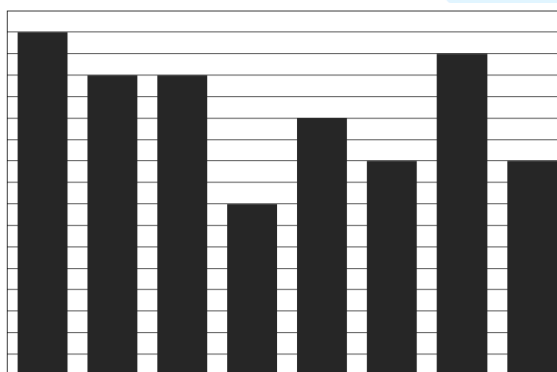
7	<p>Three students - Mae, Kyla, and Raphael - were suspected of stealing their classmate's wallet. Teacher Fiona knows that the two of them are guilty. When faced with suspension, they made the following statements:</p> <p><b>Mae:</b> Raphael is guilty. I saw what he did earlier.  <b>Kyla:</b> Mae is not guilty. She is innocent.  <b>Raphael:</b> I am guilty. I stole the wallet.</p> <p>However, only two of the three are telling the truth. The other one is lying.</p> <p><b>Which of the following statements must be true?</b></p> <ul style="list-style-type: none"> <li>A. Kyla is lying.</li> <li>B. Mae is not guilty and is telling the truth.</li> <li>C. Raphael is guilty and lying.</li> <li>D. Raphael is not guilty but is not telling the truth.</li> </ul> 
8	<p>The education system has slowly accepted the reality that <u>non-supervised learning</u>, in the case of young students, is not effective. Not every child has the same access to resources, and <u>not all parents</u> have the time to teach their children at home. In the end, schools should endeavour to create measures that ensure engagement, supervision, and timely assessment in terms of the students' progress.</p> <p><b>If all are true, which among the choices below best strengthens the statement above?</b></p> <ul style="list-style-type: none"> <li>A. When teachers talk to students often, the students feel happy.</li> <li>B. Checking to make sure students are not <u>being lazy</u> during online classes.</li> <li>C. It takes a lot of work for teachers to <u>keep an eye on</u> students, and they don't get paid enough for it.</li> <li>D. When teachers talk to students at the right time, they can help them if they are having trouble.</li> </ul>
9	<p>Apex predators are frequently referred to as "<u>top predators</u>" since they occupy the apex of their food chain. They are also typically viewed as dominant and <u>without natural enemies</u>. However, it is crucial to note that apex predators do not necessarily have to be extremely massive. Although they frequently are, it is more important to note how their size relates to other species with which they interact and how they behave within their own biological community.</p> <p><b>Which of the statements below best shows the main conclusion of the passage?</b></p> <ul style="list-style-type: none"> <li>A. Apex predators are usually the biggest and strongest animals in their environment.</li> <li>B. <u>Different animals can be different sizes</u>.</li> <li>C. <u>Apex predators don't need to be huge</u>, as long as they can catch other animals for food.</li> <li>D. The animals at the top of the food chain are usually predators.</li> </ul>

10

Mario's group of friends donated the following amounts to charity:

Mario	Luigi	Bowie	Pia
160	130	140	80
Ricky	Quasi	Lulu	Zipa
120	100	150	100

The charity organisers prepared a bar graph to document the donations but an error occurred as shown below:



If one of the donations was accidentally increased in the bar graph, whose donation was it?

- A. Mario
- B. Luigi
- C. Lulu
- D. Zipa

11


Animal testing may be done by manufacturers when commercialising new items to verify product safety. It may be used in the creation of cosmetics by testing a certain finished product on animals, such as, but not limited to, rabbits, mice, rats, monkeys, dogs, and guinea pigs. Animal studies are also considered necessary for research, which aims to fully comprehend complex questions about progression, genetics, or other biological factors of a whole living system that would be unethical and too difficult to conduct on humans.

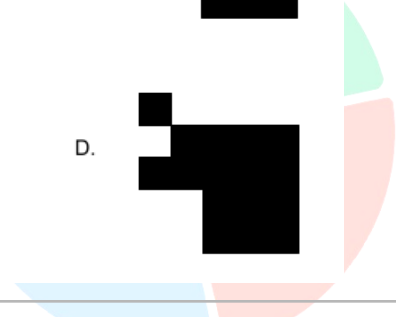
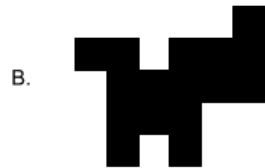
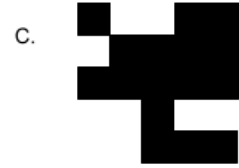
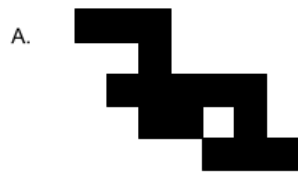
Which of the following statements, if true, best weakens the above argument?

- A. Dior pays for and enables animal testing as needed by law.
- B. Alternatives to animal testing include advanced computer modelling and investigations using human volunteers.
- C. Animal testing is carried out by commercial institutions or by universities or medical schools.
- D. Abandoning animal research would have catastrophic consequences for public health and medical science.

12

**Janet:** "Prohibitions and/or restrictions on travel, education, and entertainment are some major effects of COVID. As a result, operational changes in various fields are expected to happen. Oddly, nothing has changed in crime scene procedures. As a forensic scientist, I have seen how forensic autopsies and tainted biological samples were quickly accepted but not CSI procedures."

	<p><b>Which of the following best expresses the main conclusion of Janet's argument?</b></p> <ul style="list-style-type: none"> <li>A. Investigators in CSI units frequently work in close quarters for extended periods of time but procedures haven't changed much.</li> <li>B. While COVID has imposed restrictions on travel, hospitality, education, and entertainment, crime never ceases.</li> <li>C. Because of COVID, travelling, education, and the life of the people have changed but CSI's crime procedures stayed the same.</li> <li>D. CSI teams could, for example, adopt existing protective measures for chemical, biological, radiological, or nuclear incidents.</li> </ul>
13	<p>The world needs balance. Bad people balance out good people. Therefore, bad people are necessary in the world.</p> <p><b>Which of the following best expresses the flaw in the argument above?</b></p> <ul style="list-style-type: none"> <li>A. The accusation about the necessity of bad people is unsubstantiated in this paragraph.</li> <li>B. The passage uses two meanings of the word 'balance' to come to an illogical conclusion about bad people.</li> <li>C. The conclusion about bad people is founded on the premise that their roots define their value.</li> <li>D. The chapter makes a strong case for its position on bad people, primarily via emotion.</li> </ul>
14	<p>Jeremy attended Leo's birthday party. He did a survey and asked the visitors which kind of pasta they liked most between Spaghetti, Carbonara, and Pesto.</p> <p>It was found that:</p> <p>All who liked Pesto did not like Spaghetti.  Most who liked Carbonara also liked the Spaghetti.  No one who liked Pesto did not like Carbonara.</p> <p><b>If Jeremy did not like the Spaghetti, which of the following is true?</b></p> <ul style="list-style-type: none"> <li>A. Jeremy liked both the Carbonara and Pesto.</li> <li>B. Jeremy only liked the Pesto.</li> <li>C. Jeremy liked the Carbonara, Spaghetti, and Pesto.</li> <li>D. Jeremy likes cake more than Spaghetti.</li> </ul>
15	<p>Three different shapes are given below:</p> <div style="text-align: center;">  </div> <p>Which of the following figures can be made by combining the 3 shapes above?</p>

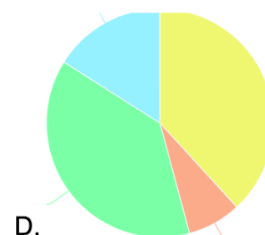
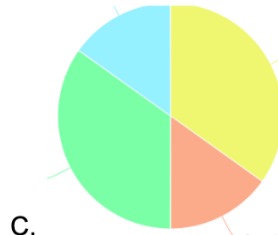
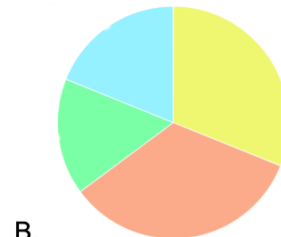
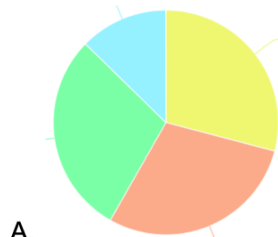


**16** Caleb did a survey in his neighbourhood to see where people like to swim the most. The data that Caleb gathered are shown in the table below.

Place	Pool	Ocean	Lake	River
Value	23	25	12	14

Caleb created a pie chart but he forgot to put the label in it.

Which of the following pie charts matches the data in the table above?



**17** Thoroughbreds and Arabian horses are both hot-blooded horses. All hot-blooded horses are fast runners. Most of the hot-blooded horses have unique gaits. Both Thoroughbred and Arabian horses are fast runners and are used in different sport competitions.

If the information in the box is true, whose reasoning is correct?

**Allan:** "If a horse has a unique gait, then it is a hot-blooded horse."

**Arcie:** "All fast running horses are hot-blooded."

- A. Allan only
- B. Both Allan and Arcie
- C. Neither Allan nor Arcie
- D. Arcie only

**18**

Ivy had her eyes checked in the optical clinic. The doctor recommended that she wear prescription glasses for her to see clearly. There are four eyeglass manufacturers that can customise Ivy's prescription glasses. The manufacturers, the type of glasses, and the prices are shown in the table below.

	Manufacturer A	Manufacturer B	Manufacturer C	Manufacturer D
Full-Frame	\$100	\$90	\$130	\$120
Semi-Rimless	\$110	\$100	\$140	\$115
Rimless Glasses	\$120	\$110	\$150	\$130
Promo	10% off	Regular Price	15% off	20% off

Ivy wants to buy the Rimless Glasses but she wants to buy from the cheapest manufacturer and spend as little as possible.

**In which manufacturer should Ivy get her glasses?**

- A. Manufacturer A
- B. Manufacturer B
- C. Manufacturer C
- D. Manufacturer D

**19**

Candese brought 25 chocolate bars to school and only ate 1 during lunch. She has 3 friends and she gave three chocolate bars to each of them. Her friends immediately ate the chocolate bars. When she came back home, there were 4 chocolate bars left and so Candese ate all of them.

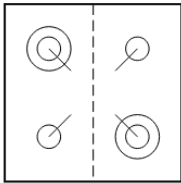
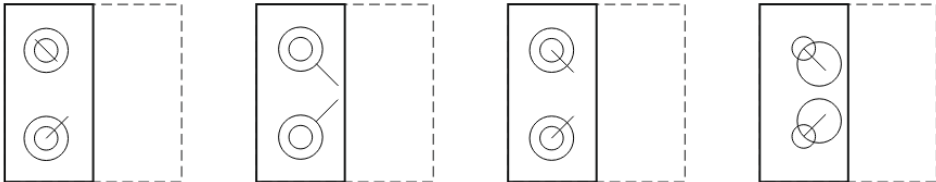
Macy and Krielle stole 6 chocolate bars and Macy ate 4 of them. Krielle kept the remaining bars for the following day's consumption.

Amanda asked for 2 more bars for her sister while they were on their way home.

**At the end of the day, who ate the most chocolate bars?**

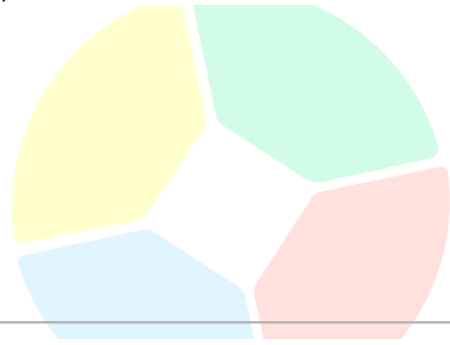
- A. Candese
- B. Macy
- C. Krielle
- D. Amanda



20	<p>Find out amongst the four alternatives as to how the pattern would appear when the transparent sheet is folded at the dotted line.</p>  <p>(X)</p>  <p>A B C D</p>
21	<p>5 students, Liam, Chris, Katie, Anne, and Beth had to take a special science exam. The maximum score they could get was 50. The results are stated below.</p> <ul style="list-style-type: none"> <li>• Liam got a higher score than Anne.</li> <li>• Katie got a score of 49.</li> <li>• Chris scored higher than Liam but lower than Beth.</li> <li>• Beth only got 3 items wrong in the exam.</li> </ul> <p><b>Which students scored higher than Liam?</b></p> <p>A. Anne, Beth, and Chris  B. Katie, Beth, and Chris  C. Katie, Anne, and Chris  D. Beth and Chris only</p>
22	<p>If a person is a high school student, then they are fast at running.</p> <p><b>If the above statement is true, which of the following must also be true?</b></p> <p>A. Someone who is <u>not fast</u> at running is not a high school student.  B. All who run <u>fast</u> are <u>high school</u> students.  C. I am not a high school student, therefore I am not fast at running.  D. Only high school students are fast at running.</p>
23	<div style="border: 1px solid black; padding: 10px;"> <p>All octopuses are cephalopods and are masters of camouflage. All cuttlefish are cephalopods. Cephalopods are characterised by their bilateral symmetry, a prominent head, and their set of arms and/or tentacles. The arctic fox is also a master of camouflage.</p> </div> <p><b>If the information in the box is true, whose reasoning is correct?</b></p>

Pearl: "If octopuses are cephalopods and masters of camouflage, then an arctic fox must also be a cephalopod."  
Larry: "Cuttlefish must also have bilateral symmetry, a prominent head, and a set of arms and tentacles."

- A. Pearl only
- B. Larry only
- C. Both Pearl and Larry
- D. Neither Pearl nor Larry



- 24 Government officials should not be using public transportation. The public transportation system is slow and inefficient, and it will only hinder officials from serving the public. They must instead use private cars and be able to zip through traffic like ambulances.

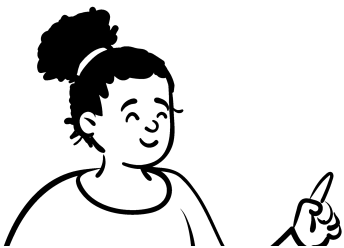
**Which of the following statements, if true, best weakens the above argument?**

- A. Self-driving cars are available to help roads become less congested so government officials can arrive at their destinations faster.
- B. Using public transportation can help public officials better understand how to fix inefficient transportation systems.
- C. Prioritising the vehicles of public officials on the road will only lead to more traffic.
- D. Using public transportation can help government officials meet more people who they can convince to vote for them in the next election.

25

Jen spends her spare time scrolling through social media. She notices a post criticising a local restaurant chain for allegedly discriminating against people of indigenous origin. People are outraged, and there are plans to boycott the restaurant.

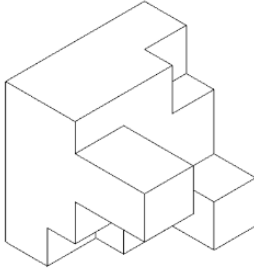
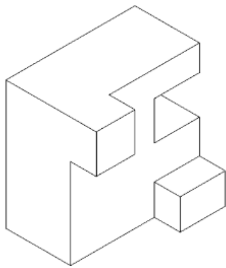
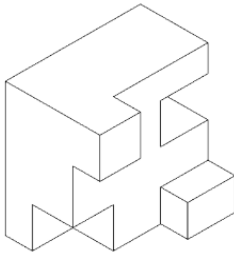
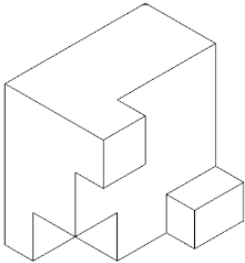
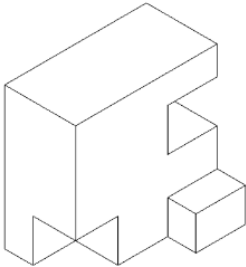
Jen remembers that she and her friends have previously eaten at the restaurant before.



**Jen:** "This claim of discrimination must be untrue. The restaurant staff are very nice and welcoming. They treated us very kindly when we dined there."

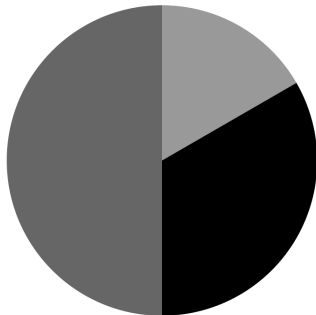
**Which of the following sentences show the mistake Jen has made?**

- A. Jen concluded, without proof, that people online were simply overreacting to the issue.
- B. Jen has drawn a conclusion solely on the basis of her own experience.
- C. Jen did not join the boycott even though other individuals were doing the same.

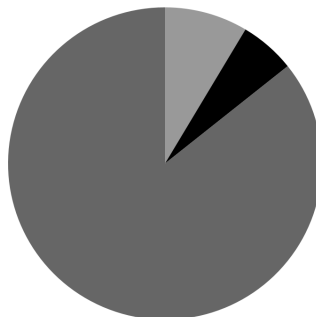
	D. Jen made faulty observations about the restaurant staff's behaviour.
26	<p>Contrary to popular belief, being a full-time artist is difficult. Some art pieces can take days, if not weeks to make. Artists have to spend years perfecting their art style or craft. Good materials can also be very expensive. Even with extensive efforts, when artists try to market their products to the public, they often do not get fair compensation.</p> <p><b>Which of the following best expresses the main conclusion of the argument?</b></p> <p>A. The public often does not understand the value of an art piece and artists' efforts.</p> <p>B. Subsidising art materials will help artists become more financially stable.</p> <p>C. Artists often have to change their art styles to what is trending in order to sell.</p> <p>D. Being an artist is more about perfecting one's crafts rather than being born with talent.</p>
27	<p>A piece of a puzzle is shown below:</p>  <p><b>Which one of the following pieces will fit the piece above to make a complete cube?</b></p> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <p><b>A.</b></p>  </div> <div style="width: 50%;"> <p><b>B.</b></p>  </div> <div style="width: 50%;"> <p><b>C.</b></p>  </div> <div style="width: 50%;"> <p><b>D.</b></p>  </div> </div>
28	Chef Reynold is taking inventory of the spices used in his restaurant.

Item	Saffron	Fennel Pollen	Vanilla Beans
Total weight	1 000 g	1 000 g	800 g
Value per gram	\$9	\$3	\$2.50

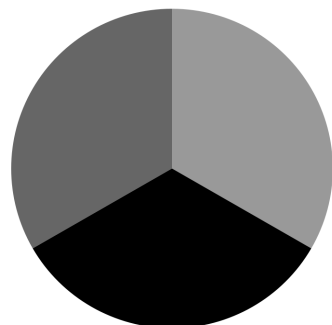
Which of the following charts represents the total value of each of the materials?



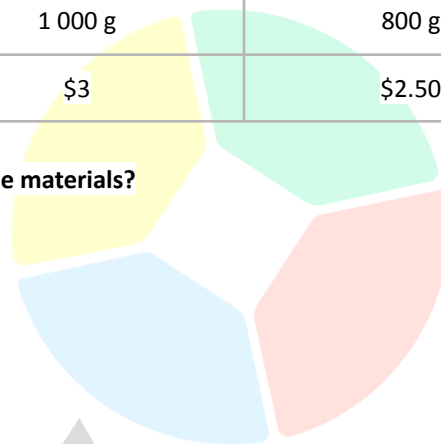
A.

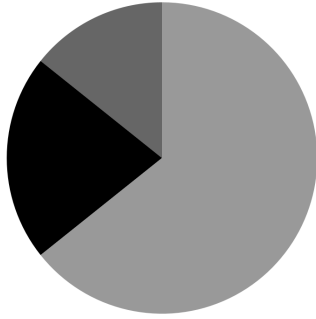


B.



C.





D.



29

Angel is giving 18 of her classmates a small gift for Christmas, which is why she needs 18 paper bags. Four shops offer the product she wants. The shops, prices, and other special offers are shown in the table below.

SHOP	STANDARD PRICE	SPECIAL OFFERS
SHOP A	\$2	No special offer
SHOP B	\$4	5% off
SHOP C	\$5	10% off
SHOP D	\$5	Buy 1 Get 1

If Angel goes for the cheapest option, how much would she only have to pay?

- A. \$36
- B. \$38
- C. \$40
- D. \$42

30

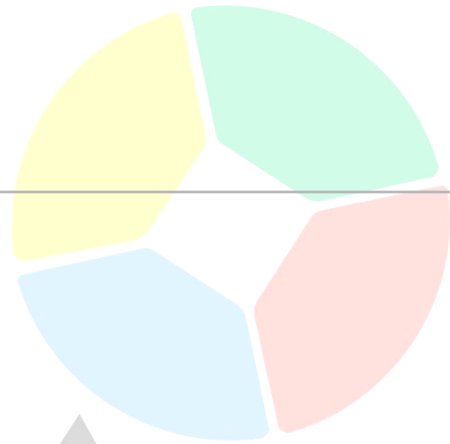
Justin wants to go to the Annual Car Show in Melbourne in September. He wants to go on the following dates of September: 1,5,10,16,17,18,21, and 26.

The prices of the tickets are as follows:

Pass for 1 day	Pass for 3 consecutive days	Pass for 5 consecutive days
\$16	\$46	\$75

How much would Justin have to pay for all his tickets?

- A. \$126
- B. \$129
- C. \$132
- D. \$144



Scholarly