

GMAT IR Practice Paper 19
Question 1

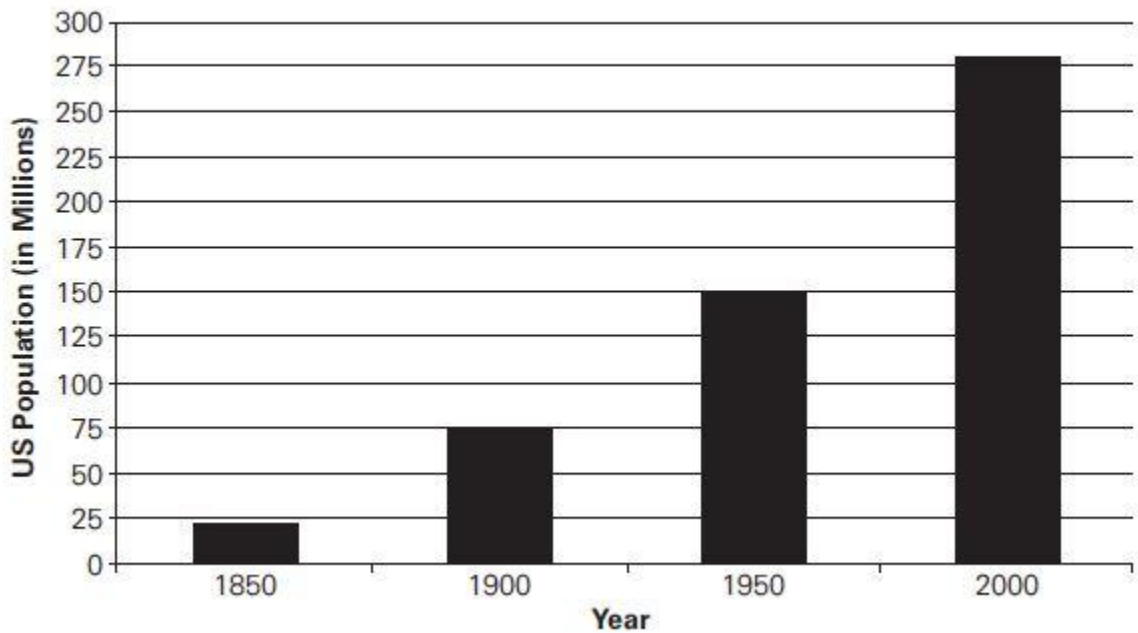
Andre is buying gifts for his office staff. He wants to spend exactly \$280 and he can buy either sweatshirt, which cost \$22, or baseball caps, which cost \$26. In the table below, choose the number of sweatshirts and the number of baseball caps that Andre should buy.

Sweatshirts	Baseball Caps	Number to Buy
(A) __	(A) __	4
(B) __	(B) __	5
(C) __	(C) __	6
(D) __	(D) __	7
(E) __	(E) __	8
(F) __	(F) __	9

(The Princeton Review)

Question 2

The bar chart below displays the population of the United States according to official census figures every fifty years over a 150-year period.



Question 2 The ratio of the U.S. population in 2000 to the U.S. population in 1900 is closest to ____.

- A. 1 to 4
- B. 2 to 7
- C. 2 to 1
- D. 3 to 1
- E. 11 to 3

Question 3 The U.S. population in 1950 was approximately ____ of the U.S. population in 1850.

- A. 800%
- B. 600%
- C. 200%
- D. 85%
- E. 15%

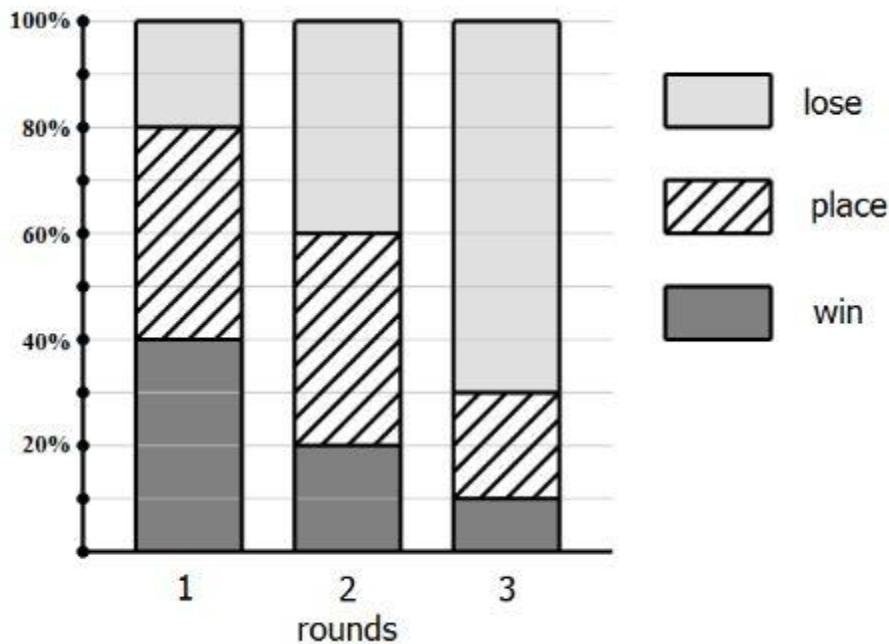
Question 4 The U.S. population increased by approximately ____ from 1900 to 1950.

- A. 25%
- B. 33%
- C. 50%
- D. 100%
- E. 200%

Question 5

In a certain academic competition, there are three rounds, and three possible results in each round. The folks who “lose” acquire no commendations and do not advance to the next round. The folks who “place”, acquire a set of commendations for that round, but do not advance to the next round. The folks who “win” acquire a set of commendations for that round, and, in the case of the first two rounds, advance to the next round; in the case of

the third round, the “win” means winning the entire competition. The following chart shows, on average, the percentages of participants who achieve the three results in each of the three rounds.



Question: 6. If 100,000 participant start this process, and if all the percentages in the chart are correct, _____ people of them would win the entire competition.

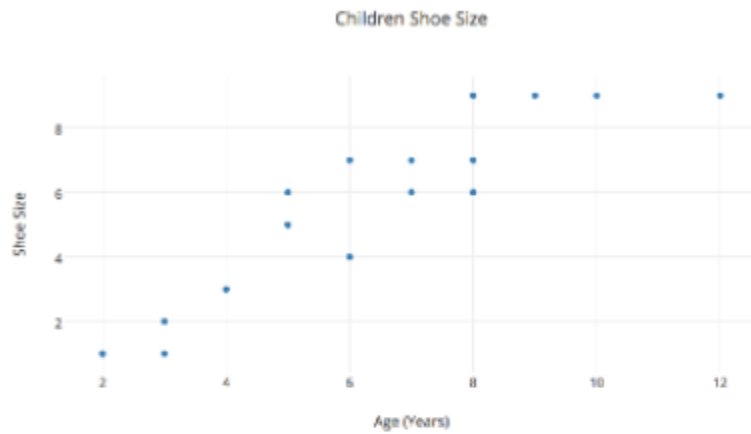
800
3,200
7,000
10,000

Question 7. Exactly _____ % of participants who start acquire exactly two sets of commendations.

16
16.8
20
21.6

Question 8

1.



The graph above plots sixteen points that each describe the shoe size of sixteen individual children. Identify the missing information of the following statement.

The relationship between the age of the child and the child's shoe size is _____.

select negative

select zero

select positive

Question 9

2. The table displays the academic class spread among Dawn County schools in 2005.

Academic Class List			
Academic Class	Schools Offering Class	% of Schools Offering	% Student Enrollment
AP English	4	50	467
English	6	75	700
Math	8	100	934
AP Calculus	4	50	467
Gym	5	63	588
Painting	2	25	233
Sculpting	1	13	121
Study Hall	5	63	588
French	4	50	467
Latin	3	38	355
German	4	50	467
Spanish	4	50	467

Based on the given information in the table, select the options that can be proven to be true.

I. No class is offered in less than one-third of the schools.

II. Every school in the district offers either Gym or at least one Art class (Painting or Sculpting).

III. Math is an academic class that is offered in all schools in Dawn County.

select I.

select II. and III

select III.

select II.

select I. and II.

Question 10

3. Over a seven-year period, from 2002 to 2009, the number of babies born to married couples increased despite a decrease in marriages from 17,000 marriages in 2002.

In the given expression, B and M represent the percent change in the babies and marriages, respectively.

I represents the number of babies per married couple in 2002. The percent change in a quantity is calculated by the formula:

$$\left(\frac{X_{new} - X_{old}}{X_{old}} \right) \times 100$$

Identify the following with the given information,

I. The expression that represents the number of babies born in 2002.

II. The expression of the number of babies born per family in 2009.

select I. The expression that represents the number of babies born in 2002.

$$\frac{17,000}{I}$$

II. The expression of the number of babies born per married couple in 2009.

$$\left(\frac{100 + B}{100 + M} \right) \times I$$

select I. The expression that represents the number of babies born in 2002.

$$17,000I$$

II. The expression of the number of babies born per married couple in 2009.

$$\left(\frac{100 - B}{100 + M} \right) \times I$$

select I. The expression that represents the number of babies born in 2002.

$$17,000I$$

II. The expression of the number of babies born per married couple in 2009.

$$\left(\frac{100 - M}{100 + B} \right) \times I$$

select I. The expression that represents the number of babies born in 2002.

$$\frac{17,000}{I}$$

II. The expression of the number of babies born per married couple in 2009.

$$\left(\frac{100 + M}{100 + B} \right) \times I$$

select I. The expression that represents the number of babies born in 2002.

$$17,000I$$

II. The expression of the number of babies born per married couple in 2009.

$$\left(\frac{100 + B}{100 + M} \right) \times I$$

Question 11

4. A high-school music department is putting together a two-day music festival to highlight the students' talents. The schedule for the two days will adhere to the following rules:

1. Five musical performances are scheduled for each day.
2. The majority of the performances on one of the days will be composed of woodwind instruments (clarinets, flutes, saxophones, oboes, or bassoons)
3. The other day will primarily feature solo performances.

Currently, 8 of the performances (4 each day) have been scheduled. The music department must add one additional performance on each day:

Day 1

Smooth Jazz Group (10th Grade, Saxophone Trio)

Rock Your Socks Off (12th Grade, Vocal Group)

Dustin & Karen (11th Grade, Flute Duo)

James (11th Grade, Trumpet Solo)

Day 2

Adam (10th Grade, Vocal Solo)

John (11th Grade, Clarinet Solo)

Rachel (12th Grade, Brass Solo)

4 Blind Mice (9th Grade, Woodwind Quartet)

The music department must add one additional performance on each day.

Based on the rules above, identify a performance that following:

- I. A performance that can be scheduled on either day.
- II. A performance that cannot be scheduled on either day.

I. Susan (12th Grade, Flute Solo)
 II. James & Jimmy (10th Grade, Vocal Duo)

I. Jenny & Molly (12th Grade, Flute Solo)
 II. James & Jimmy (10th Grade, Vocal Duo)

I. Susan & Tina (12th Grade, Flute and Clarinet Duo)
 II. James & Jimmy (10th Grade, Vocal Duo)

I. Susan (12th Grade, Flute Solo)
 II. Kimmy (10th Grade, Trumpet Solo)

I. Susan (12th Grade, Flute Solo)
 II. Henry (12th Grade, Violin Solo)

Question 12

7.

Rank	Train		Passengers	
	City	Code	Number	% Change
8	Sacramento	SAC	1231	3.1
2	Reno	RNO	948	-0.7
12	Salt Lake City	SLT	1134	2.3
6	Glenwood Springs	GLN	1014	1.8
3	Denver	DEN	724	-1.2

The table above give information for 2013 on the total passengers for 5 train stations in the western United States. These stations were chosen because in 2013 they were among the most popular. The table also includes the percent increase and decrease from the previous year.

Consider the following statements and determine whether the statements are true or false based on the information provided by the table.

I. The percent of change in the passenger count from 2012 created the rank identifier for 2013.

II. The train station that has the median number of passengers also has the median rank.

III. Over 50 percent of the stations that experienced a percentage increase are in the state of Utah.

I. True
II. True

III. False

I. False
II. False

III. True

I. False
II. True

III. True

I. False
II. True

III. False

Question 13

8. Email #1

Email from wedding coordinator to bride and groom

February 12, at 10:13am

"The final headcount for booking the pavilion for the reception is today. Right now we have a rough estimate of 425 people. Is this still true and if so, do we know how many people will be having the chicken dinner?"

Email #2

Email from the bride to the wedding coordinator

February 12, at 10:27am

"We are still waiting on 40 invitations to RSVP; we gave a deadline of February 15. Is there a possibility for an extension to the 15th? Of the current 425 guests 375 have opted for the chicken dinner."

Email #3

Email from the wedding coordinator to the bride

February 12, at 11:02am

"I will reach out to the pavilion to see if an extension is possible and get back to you this afternoon. We can always assume for more since the pavilion does offer a refund if any changes are made at least one week prior to the wedding."

Based on the given information in the emails, determine whether the statements are justified.

I. The wedding coordinator is not willing to extend the guest headcount deadline.

II. The bride does not have a specific, expected date to receive RSVPs.

III. The wedding coordinator gives additional options to the bride in case the pavilion will not give an extension.

I. Justified
II. Not justified
III. Justified

I. Not justified
II. Not justified
III. Justified

I. Not justified
II. Justified
III. Justified

I. Justified
II. Justified
III. Not justified

I. Not justified
II. Justified
III. Not justified

Question 14

9. Techniques

At a gym there are three different paths an individual can take to obtaining membership. The first option is personal training. The second option is group fitness classes and the last option is individual direction. Members are only allowed to partake in individual direction after 5 personal training sessions and 10 group fitness classes.

Personnel

For personal training, there must be one trainer per individual. For group fitness classes there must be one trainer per eight individuals. For individual direction, no trainer is required; however, only 25 members can partake in individual direction at a time. At this particular gym there are 12 trainers.

Price

The price of membership depends on the technique the individual chooses. Personal training costs between \$40 and \$75 per session, depending on the trainer. Group fitness classes cost \$20 per session. Individual direction costs \$15 per visit.

Based on the given information, determine whether each of the statements is justified.

- I. An individual who is experienced in fitness and has taken 3 group classes can choose to pay for the individual direction membership.
- II. An individual who has a budget of \$160 a month to spend on fitness after going through the personal training and group sessions can attend 8 classes per month.
- III. Tina has completed all the necessary requirements to have an individual direction membership; Tina would make the 26th member of this type.

I. Justified
II. Justified
III. Not justified

I. Not justified
II. Justified
III. Not justified

I. Justified
II. Not justified
III. Not justified

I. Not justified
II. Justified
III. Justified

I. Not justified
II. Not justified
III. Justified

Question 15

10. Type of Art

Pointillism is a type of art that is created by drawing numerous dots on paper. Watercolor paintings are created by combining paint and water to create different shades. Pottery is made by molding clay.

Time to Create a Piece

A pointillism piece that has dimensions of 12x18 takes on average 15 hours to create. A watercolor painting that is 17 x 23 takes on average 20 hours to create. A piece of pottery that has dimensions 6 x 2 x 4 takes 12 hours to create.

Exposition

An art school is holding an exposition to highlight their student artists. The school will commission their students to create new works of art specifically for the exposition. The exposition requires one-third of the artwork displayed to be watercolor paintings and one-fifth to be pottery pieces.

Based on the given information, determine whether each of the statements is justified.

I. There are 20 watercolor paintings, 12 pottery pieces, and 28 pointillism pieces in the art exposition.

II. Students that will be featured in the school's exposition require no more than one day's notice.

III. Timothy is known for his watercolor pieces and is expected to paint 4 for the school's exposition. Timothy can create all the pieces over the weekend (Saturday and Sunday).

select

I. Not justified

II. Justified

III. Justified

select

I. Justified

II. Justified

III. Not Justified

select

I. Justified

II. Not justified

III. Justified

select

I. Justified

II. Not justified

III. Not justified

select

I. Not Justified

II. Justified

III. Not justified