

Grade 7 General Term 3 Revision 2024-2025

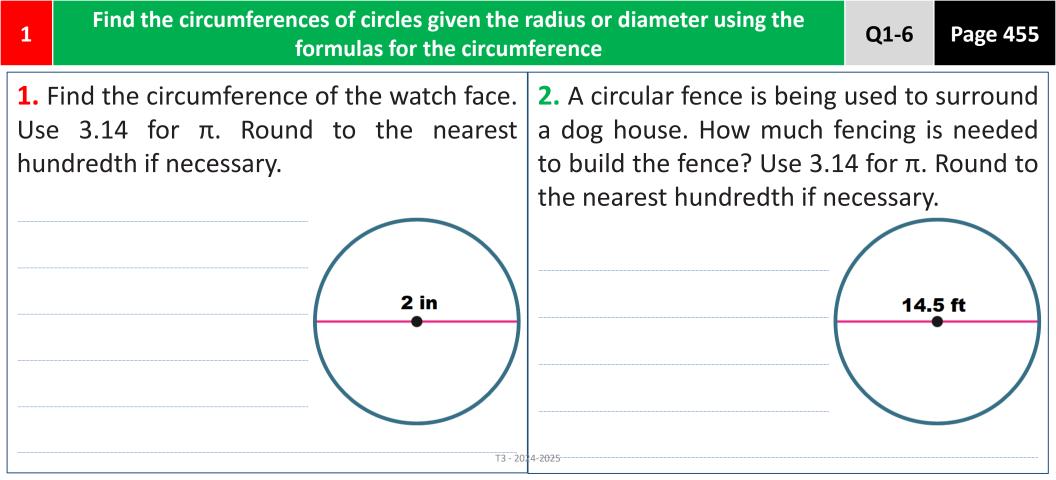
EoT3 Exam Coverage Module 9 - 11 Mathematics/Reveal

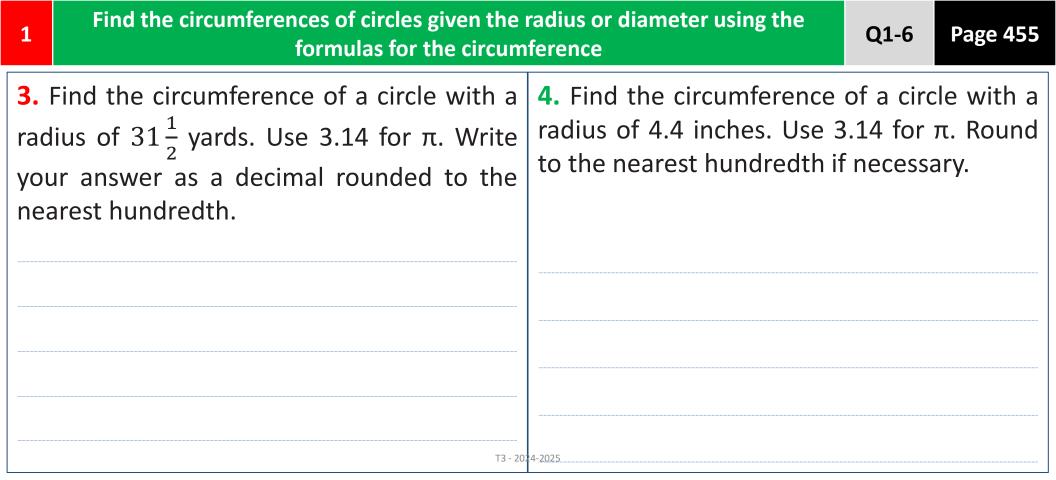
Al Soqoor School

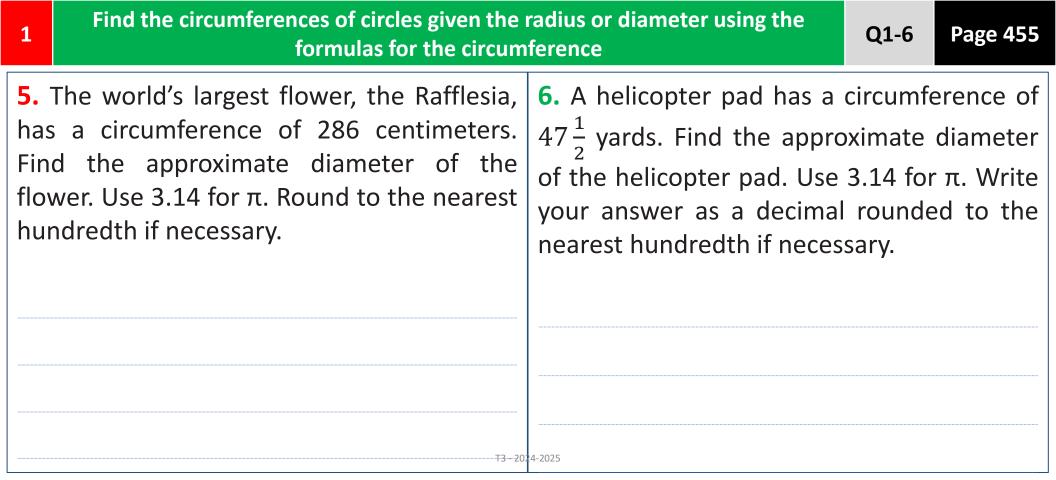


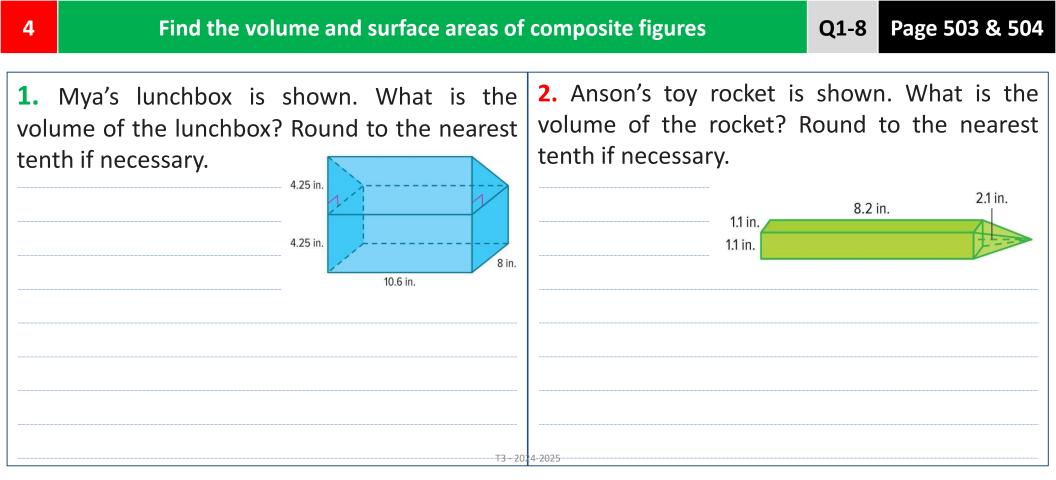
Part (1) 15 questions (from 1-15) Marks of MCQ 4







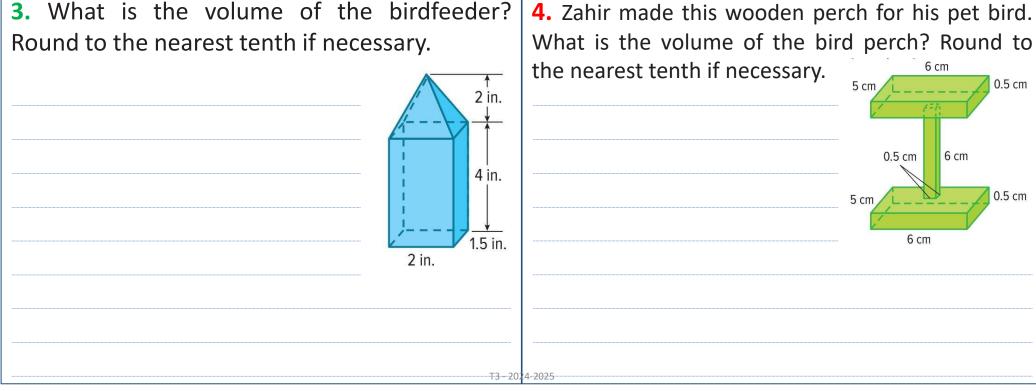




Find the volume and surface areas of composite figures

Q1-8

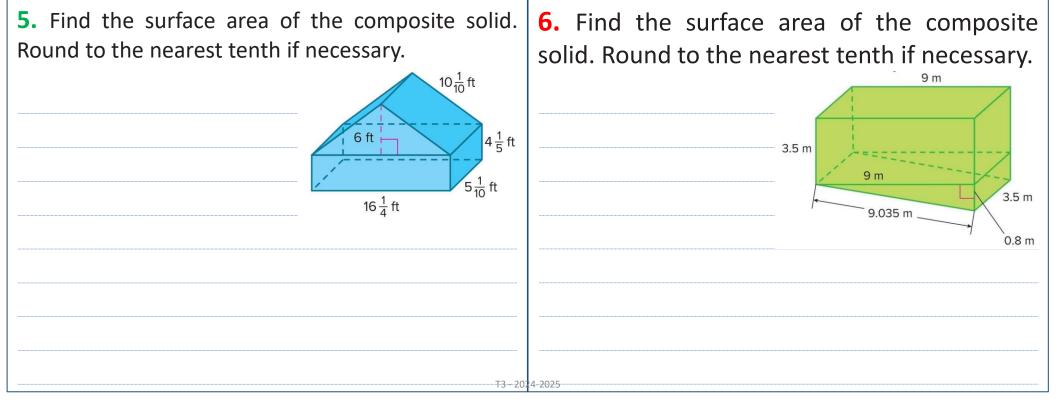
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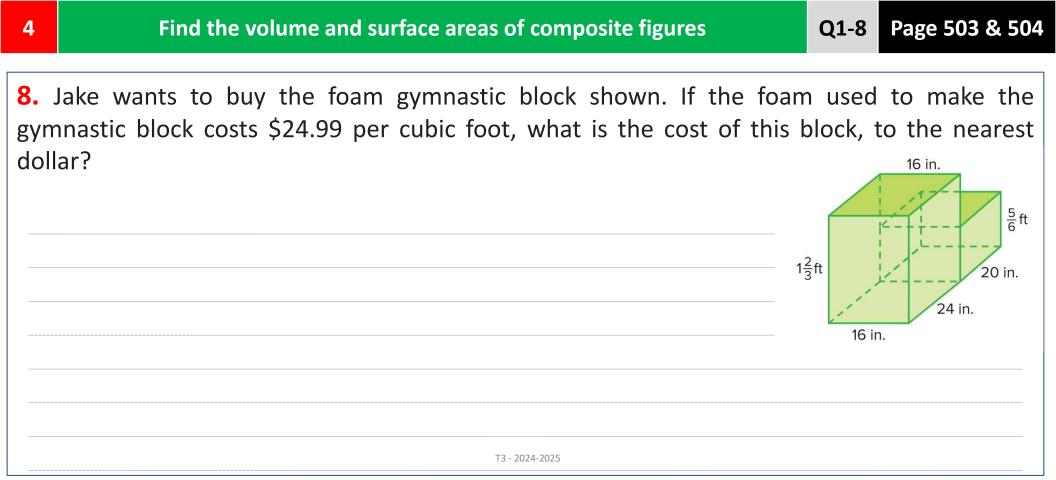


Find the volume and surface areas of composite figures

Q1-8

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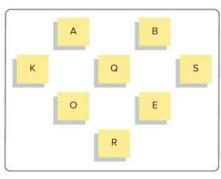
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6

Describe the likelihood of an event as impossible, unlikely, equally likely to happen as not to happen, likely, or certain.

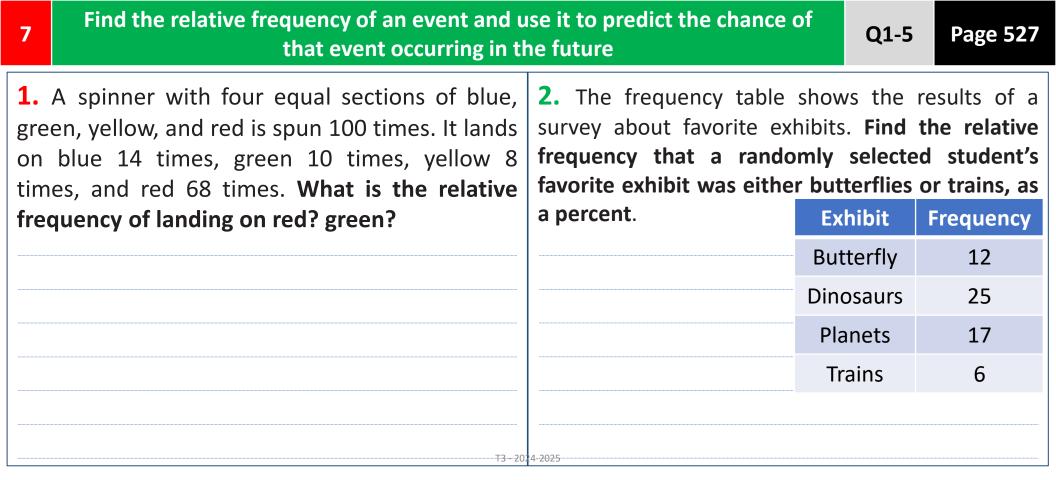
For Exercises 7 and 8, a card is randomly selected the ones shown.

- **7. Multiselect** Select all events that are unlikely to happen.
- ☐ selecting the letter B
- □ selecting the letter T
- □ selecting a vowel or S
- ☐ selecting a consonant or vowel
- ☐ selecting a consonant or A
- ☐ selecting the letter Q or R



8. Multiselect Select all events that are equally likely to happen as not to happen.

- selecting the letter B
- → selecting the letter E
- selecting a vowel or S
- selecting a consonant or vowel
 - selecting a consonant or A
 - selecting the letter Q, R, B, or K



0.05

DVDs

Toys

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3. The graph shows the results of an experiment in 4. A random selection of students was asked the which a number cube labeled 1 through 6 is rolled question "What type of gift did you last receive?" a number of times. Find the relative frequency of rolling a number greater than 3. **Number Cube Experiment** 12 Number of Rolls

Number Showing

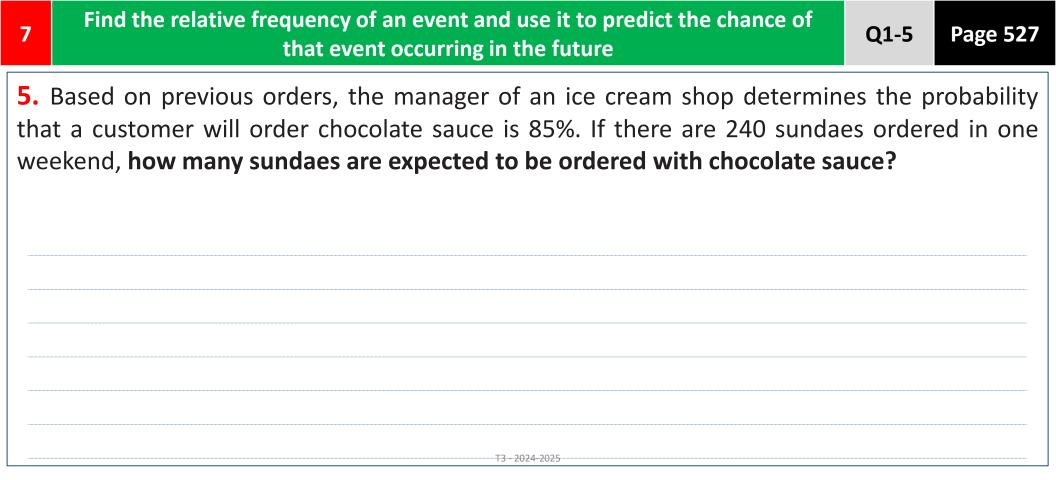


and the results were recorded in the relative frequency bar graph. What is the experimental probability that a student chosen at random received a gift card or money? 0.45 6.0 **Lednency** 0.35 0.15

Money

Gift cards

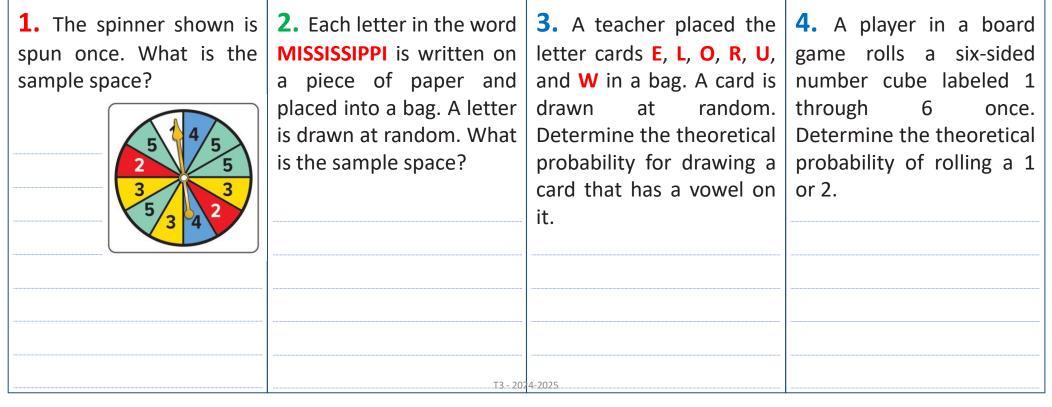
Gift Type

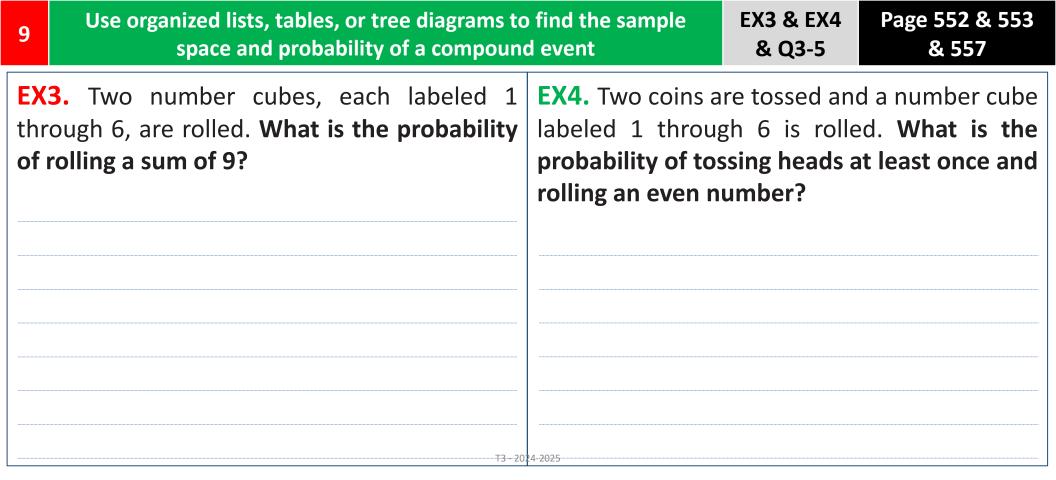


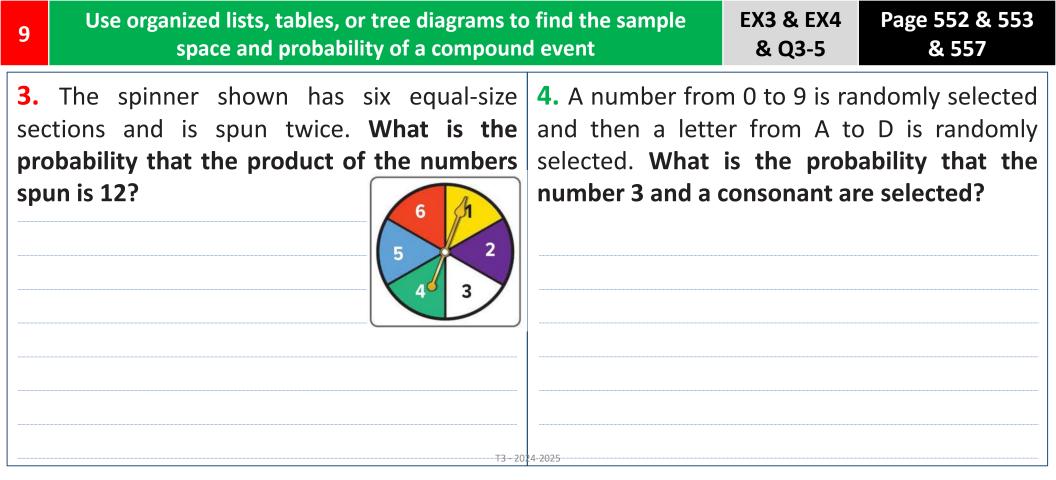
Find the theoretical probability of a simple event and its complement, and understand the relationship between them

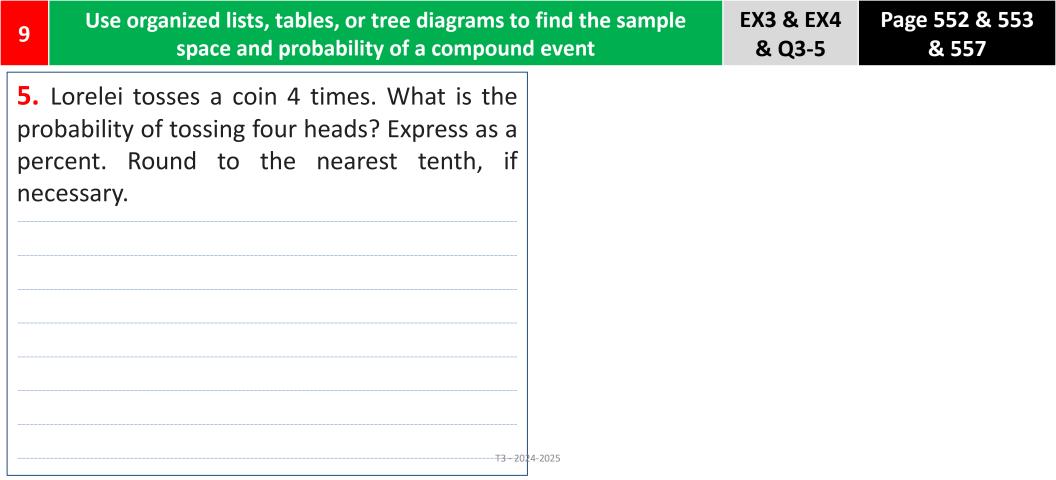
Q1-4

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Design a simulation to represent a simple or compound event

1. Suppose the chance of rain on Saturday is $\frac{2}{5}$ and the chance of rain on Sunday is also $\frac{2}{5}$. A student wants to run a simulation to estimate the probability that it will rain on both days.

A. How can the student model the chance of it raining on each day? Design a simulation.

B. Suppose the table shows the results of 10 trials of a simulation. An "R" represents a day that it rained and an "N" represents a day that it did not rain.

Trial 1 2 3 4 5 6 7 8 9 10

According to the results of the simulation, what is the experimental probability of having rain on both days?

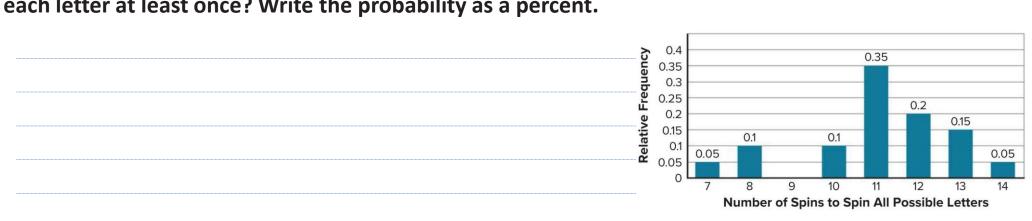
Saturday N R R N N R R N R N
Sunday N N R R N R N R N

each letter at least once.

Q1-6

2. Leigh designs and conducts a computer simulation with 30 trials and uses the data from the simulation to create the relative frequency bar graph shown. The graph shows the relative frequency of the number of spins needed for a spinner divided into 6 equal sections labeled A through F to land on

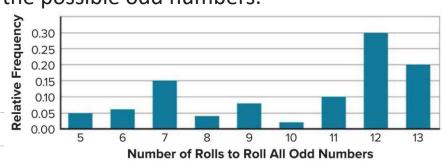
Using the graph, what is the experimental probability that more than 10 spins are needed to land on each letter at least once? Write the probability as a percent.



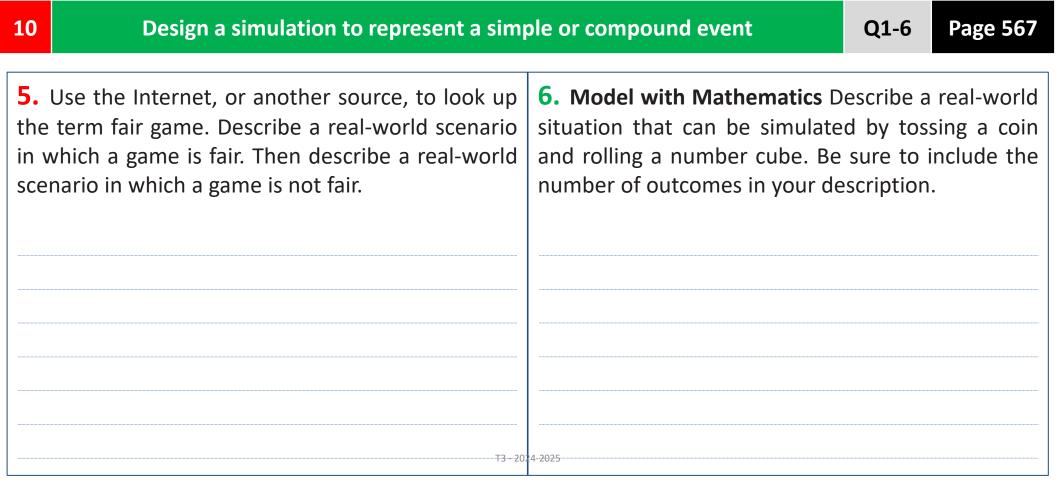
For Exercises 3 and 4, refer to the following information.

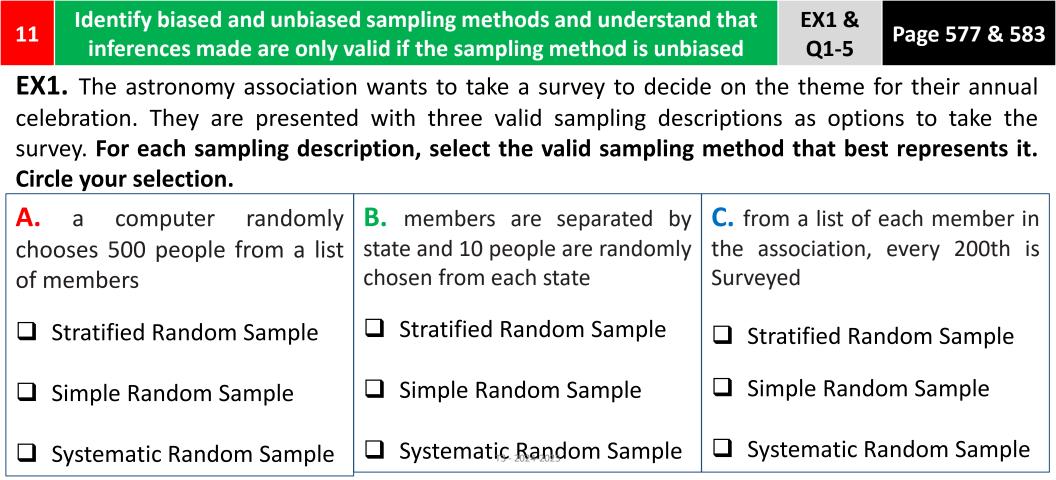
Nelly designs and conducts a computer simulation with 50 trials and uses the data from the simulation to create the frequency bar graph shown. The graph shows the relative frequency of the number of rolls needed for a number cube labeled 7 through 12 to roll all of the possible odd numbers.

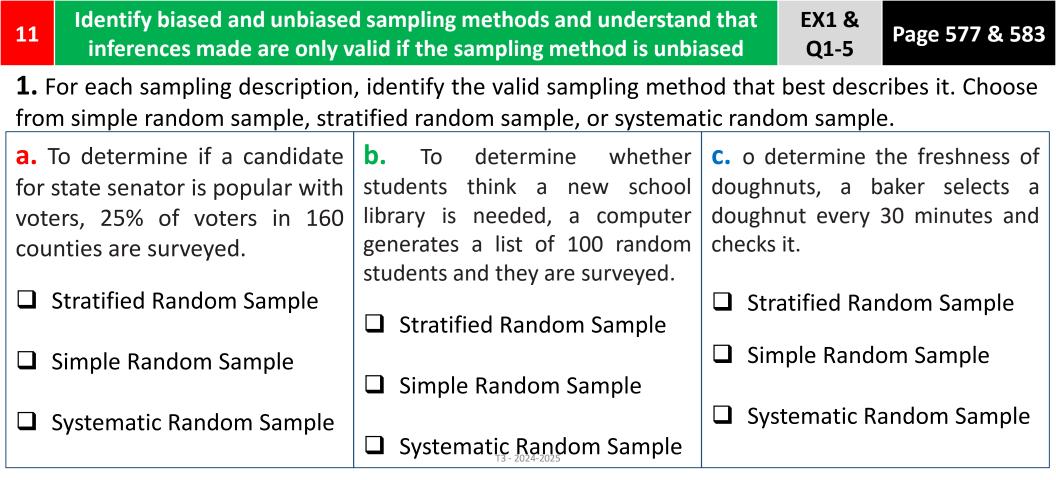
3. How much greater is the probability that 7 or 11 rolls are needed than 13 rolls?



4. Is the probability that 7 or 12 rolls are needed greater than the probability that all of the other rolls are needed? Explain.







2. Identify the type of biased sample for each situation. Choose from convenience sample or voluntary response sample.

a. A physical education teacher posts an online survey about whether students would be the student council president surveys interested in a 5K race. The responses received

determine whether there will be a 5K race.

b. To determine the theme of the school dance, homeroom class.

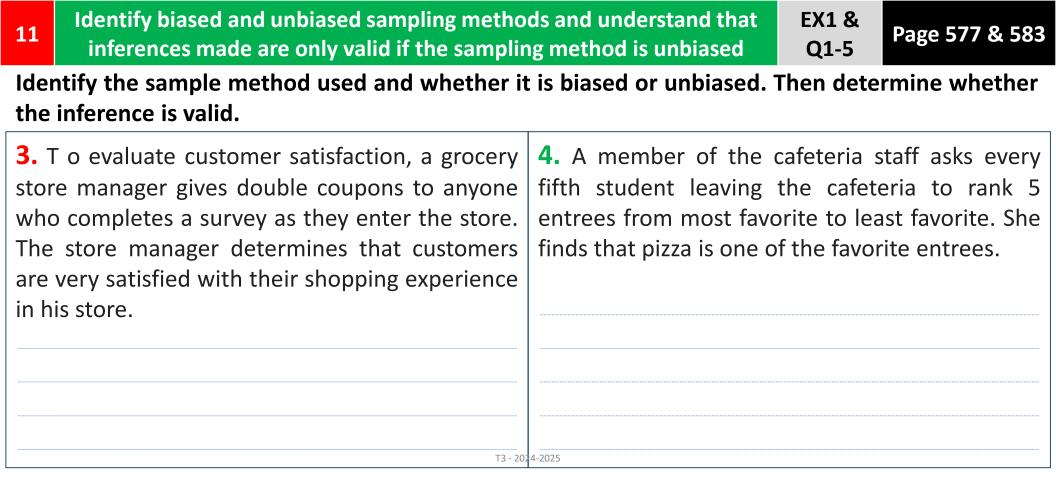
convenience sample

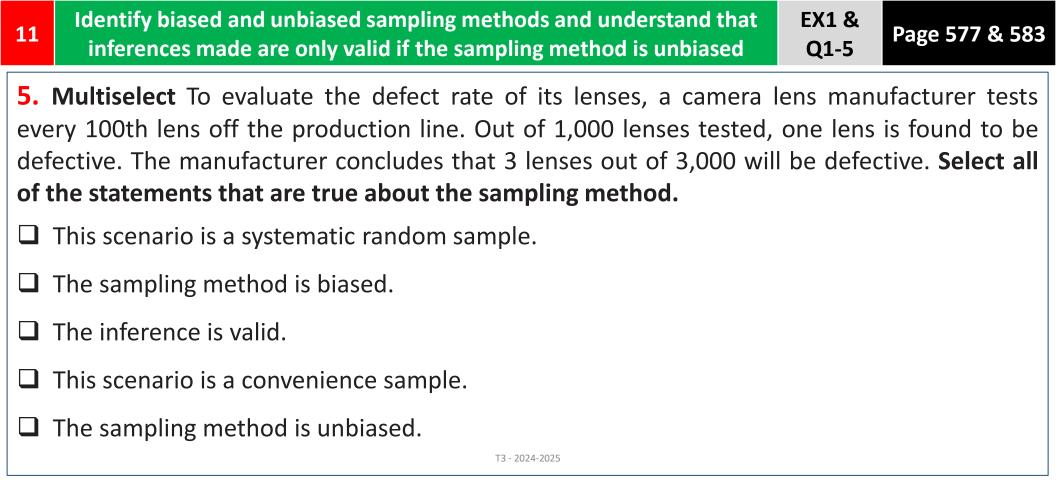
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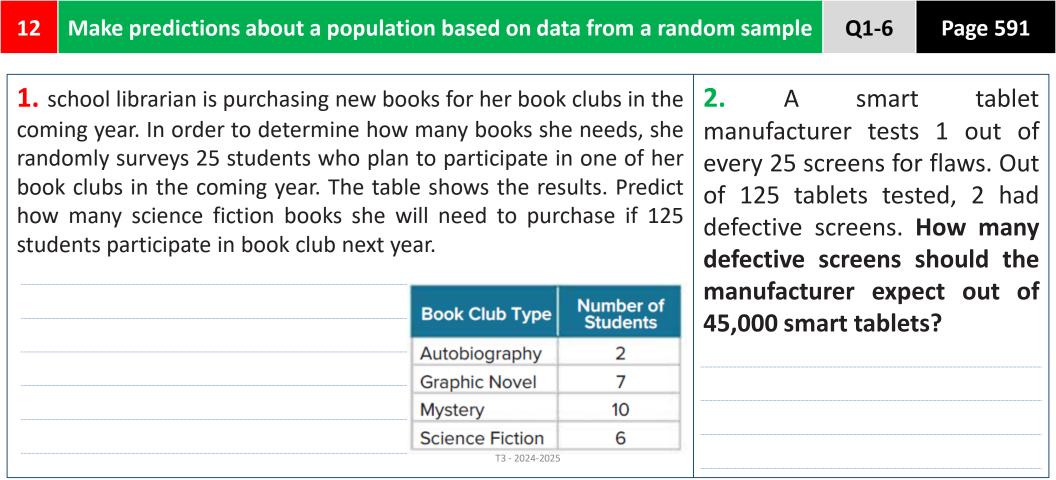
voluntary response sample

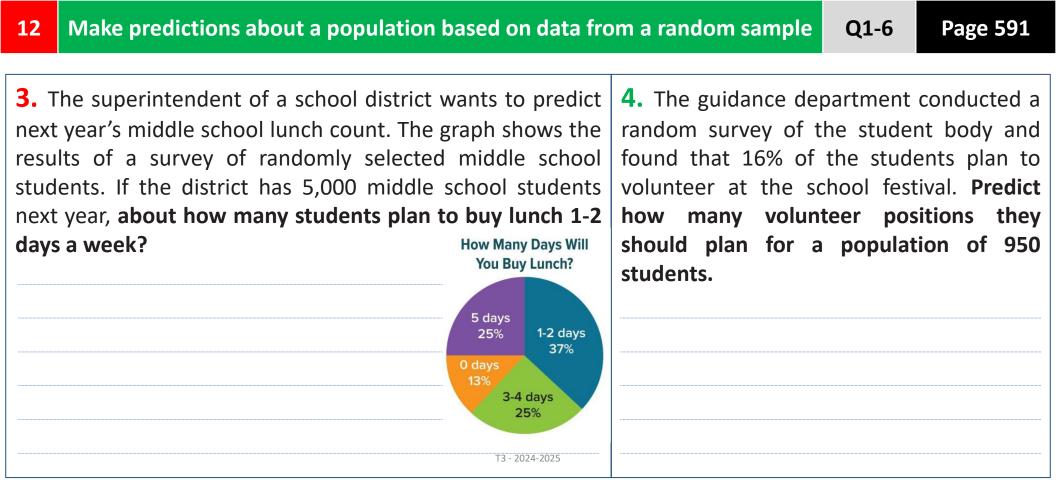
convenience sample

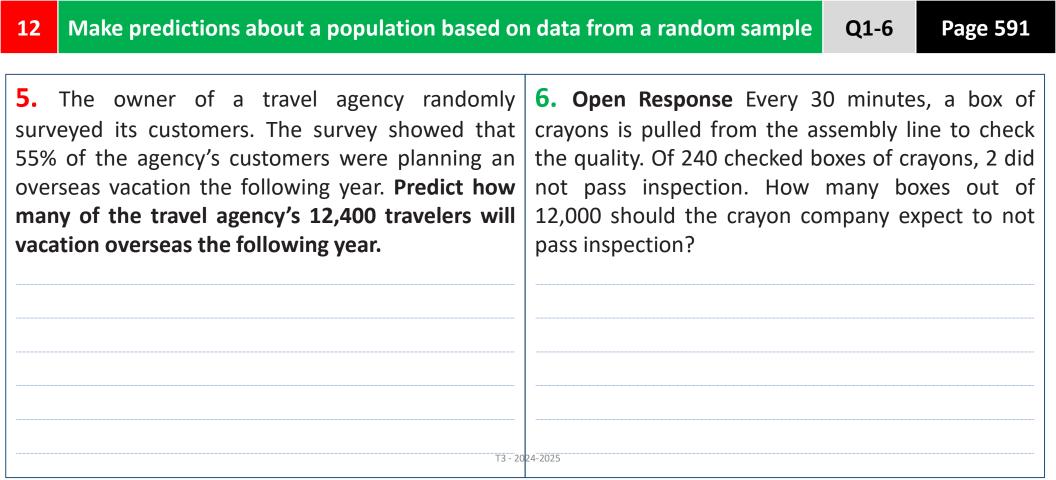
voluntary response sample



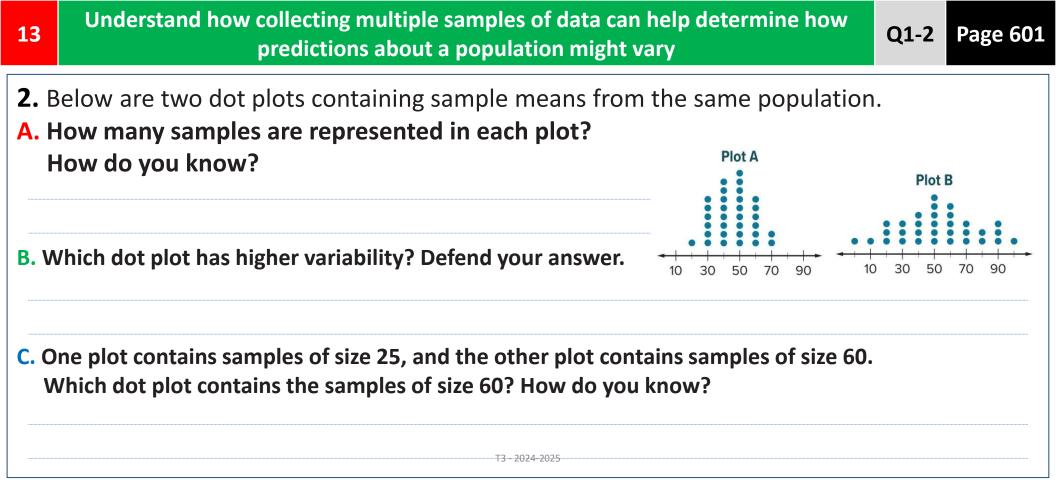


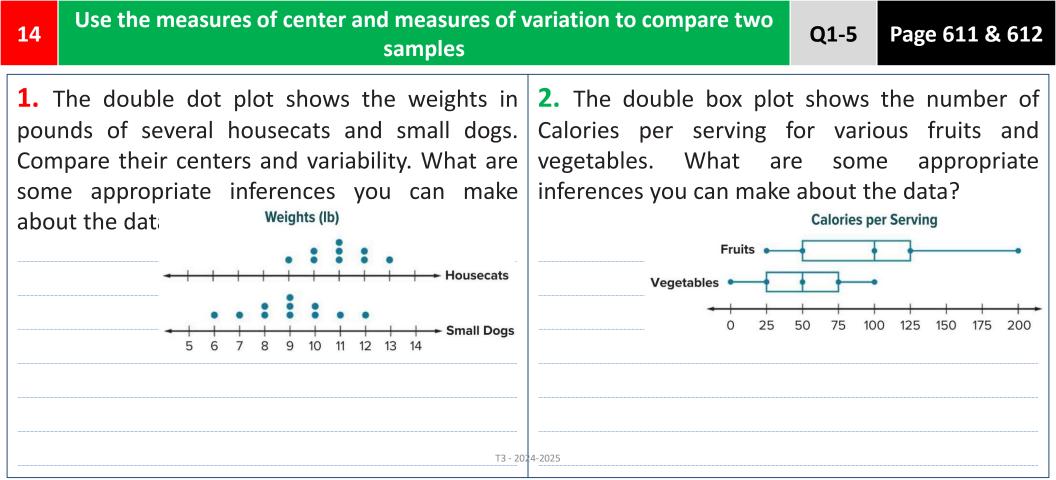


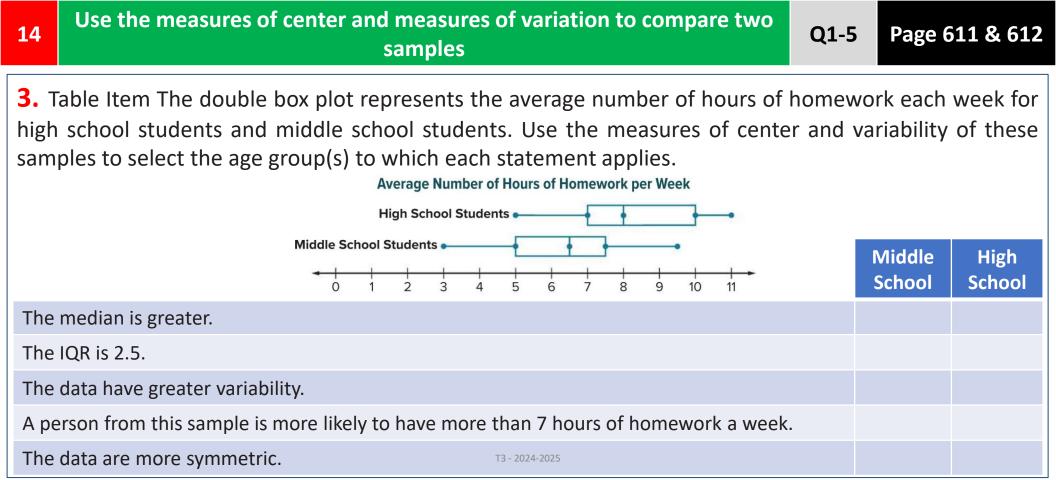


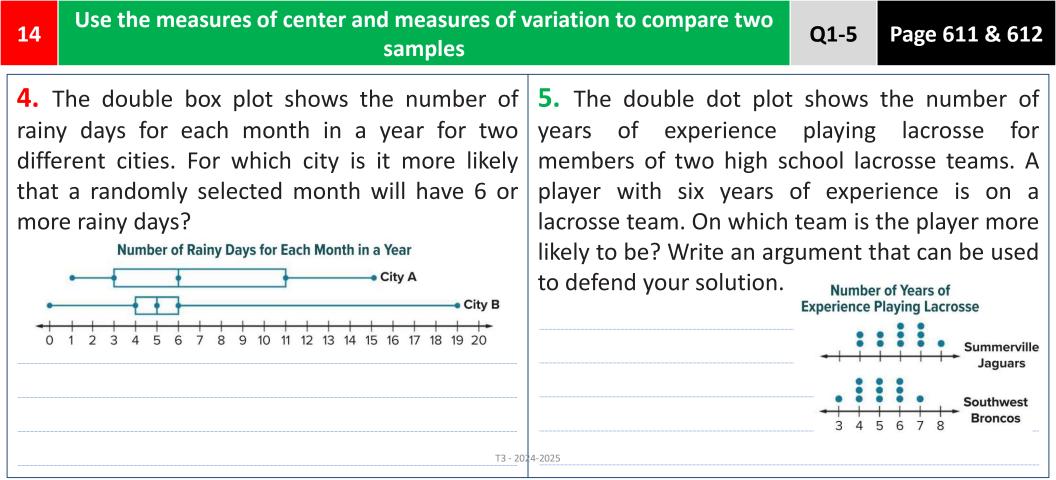


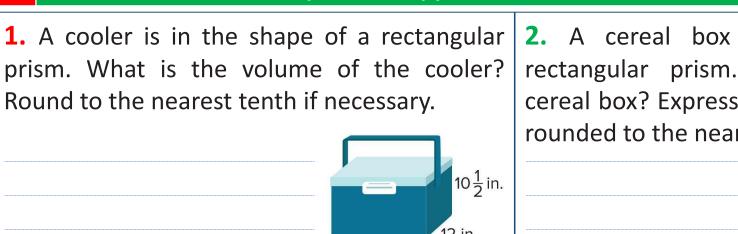
sample.



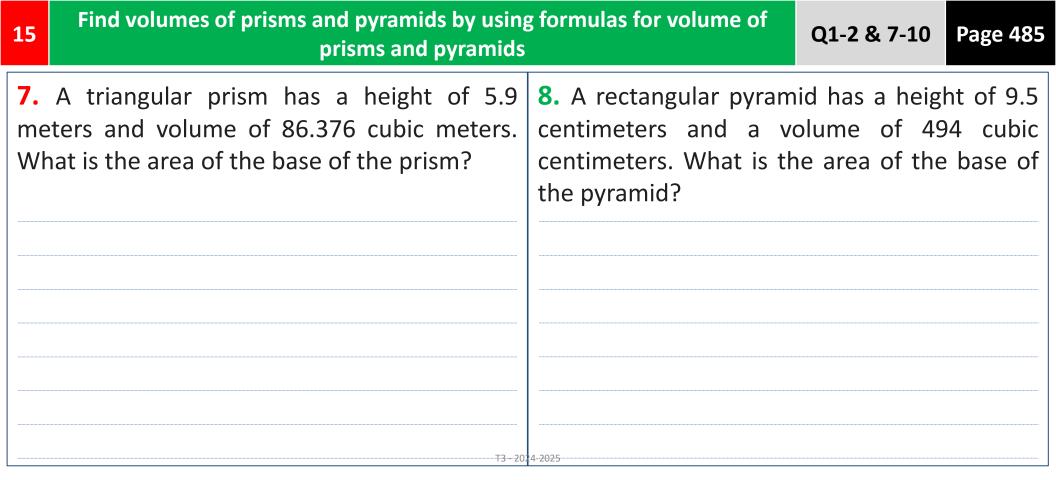


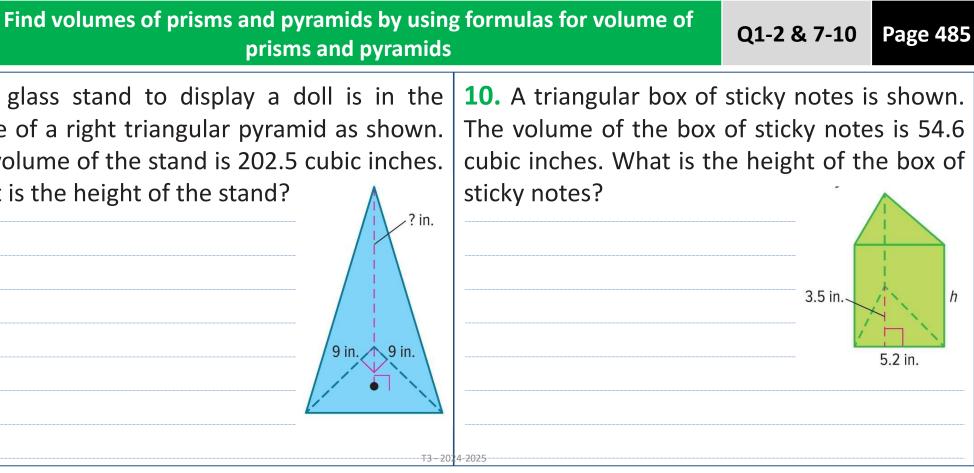






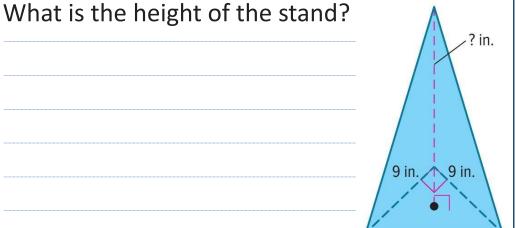
rounded to the nearest tenth if necessary. 22 in.





9. A glass stand to display a doll is in the shape of a right triangular pyramid as shown.

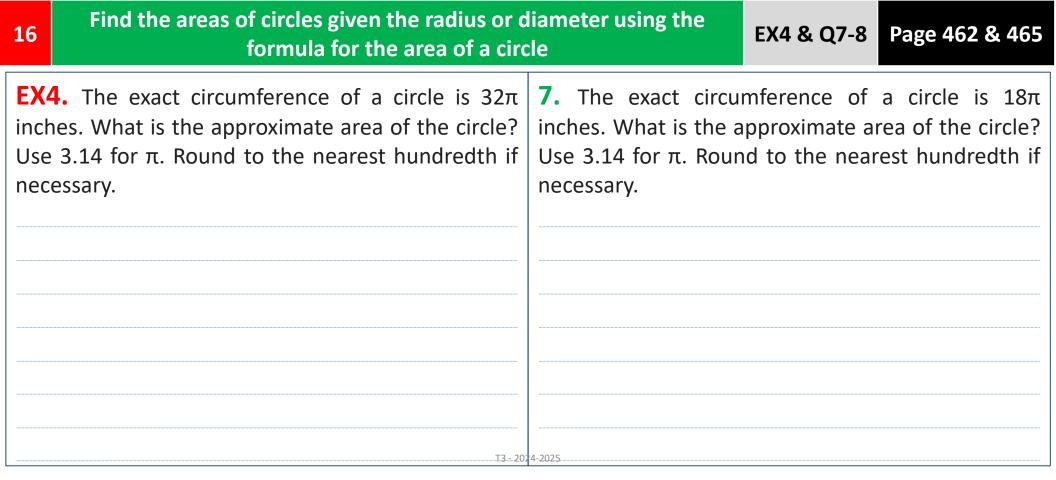
The volume of the stand is 202.5 cubic inches.





Part (2) 5 questions (from 16-21) Marks per FRQ (5-10)





necessary.

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Find the area of each figure. If necessary, use 3.14 for π and round to the nearest hundredth.

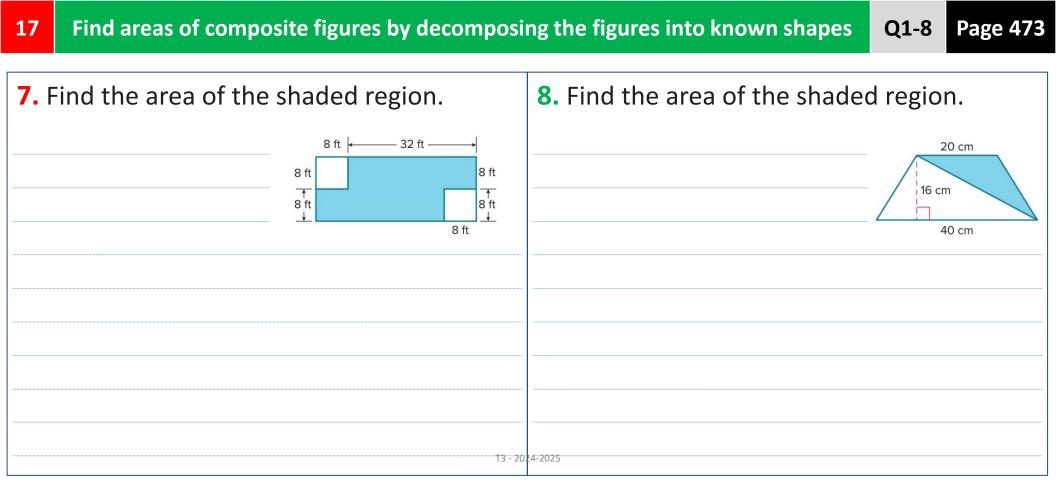


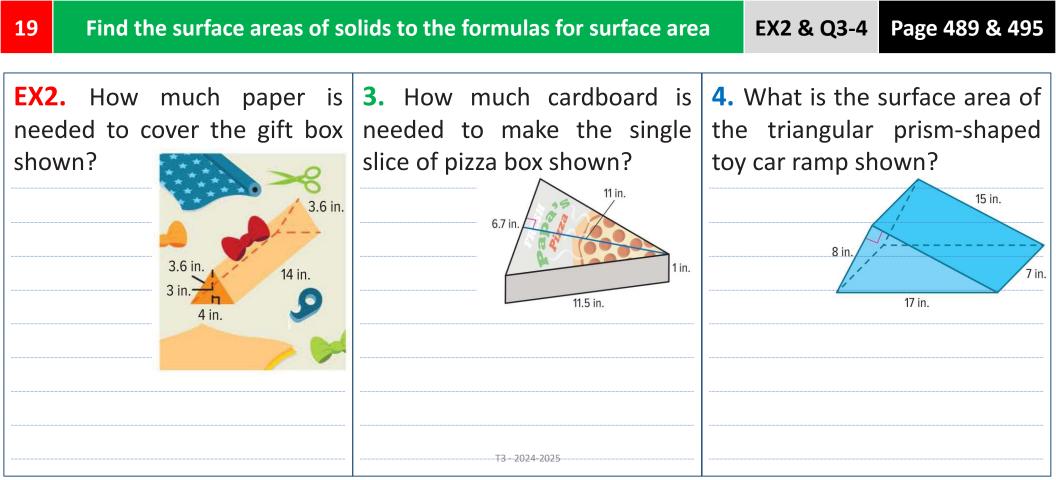
Q1-8

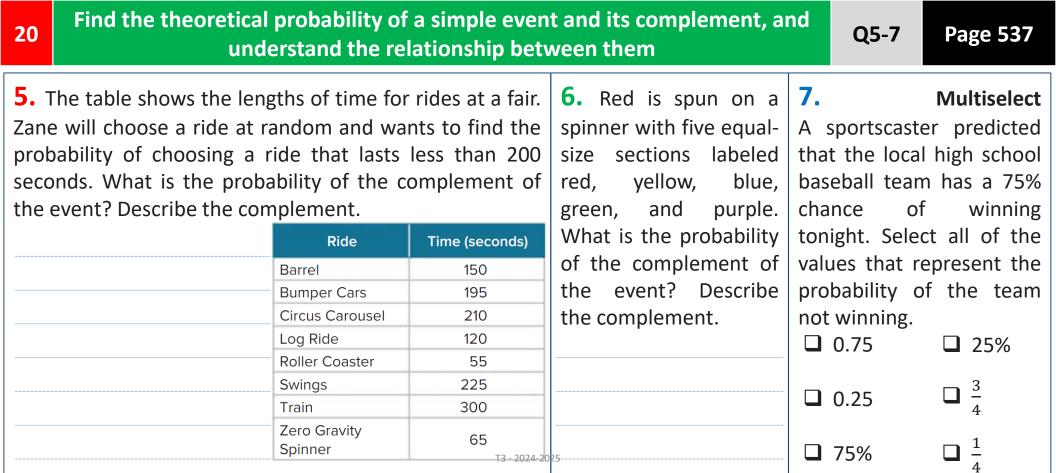
Find the area of each figure. If necessary, use 3.14 for π and round to the nearest hundredth.

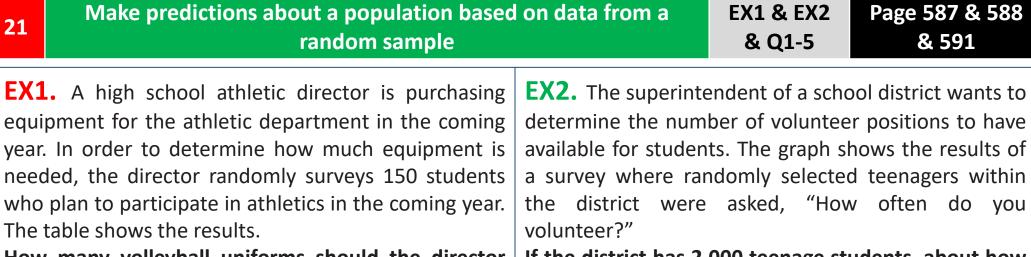
Find areas of composite figures by decomposing the figures into known shapes











T3 - 2024-2025

How many volleyball uniforms should the director purchase if 500 total students plan to participate in athletics? **Sport** Students Baseball/Softball 36 Basketball 30 Football **Gymnastics** 12

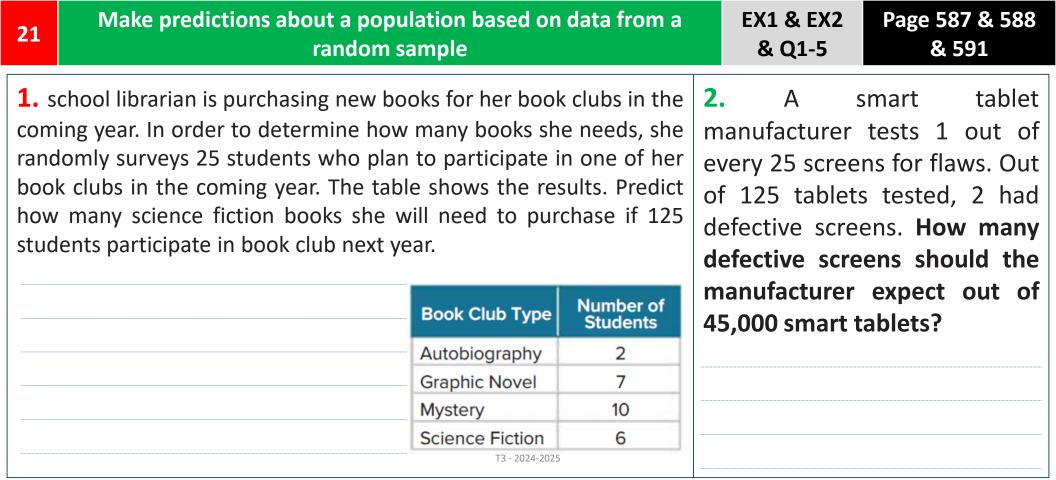
Tennis

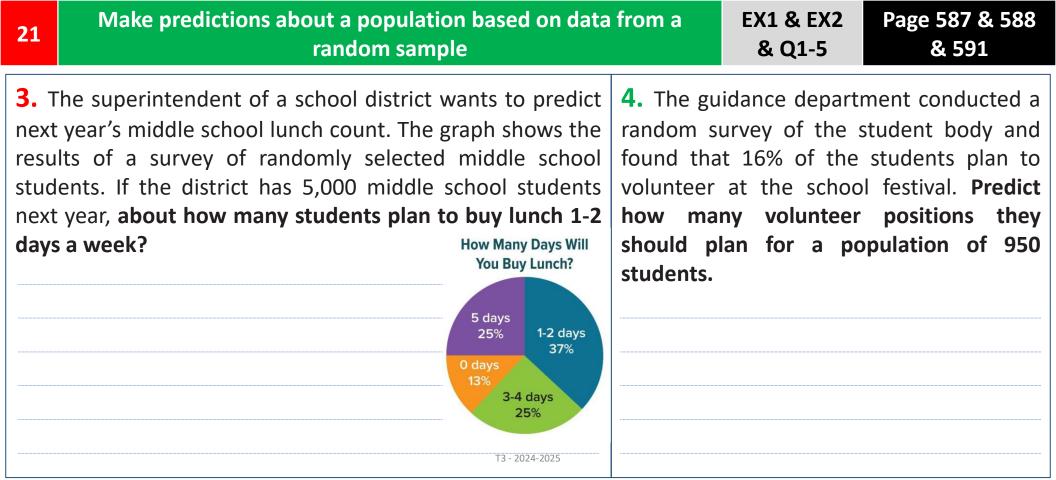
Volleyball

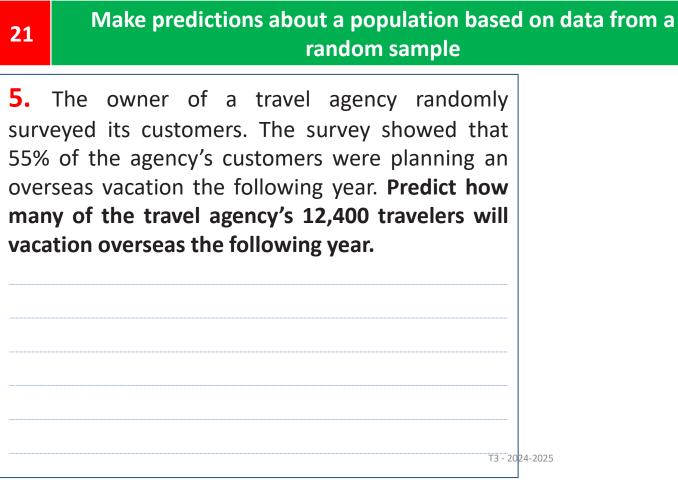
If the district has 2,000 teenage students, about how many positions should the superintendent have available for students who volunteer once a week? **How Often Teens Volunteer** Once a month Not at all Once a year

34%

Once a week







EX1 & EX2

& Q1-5

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