



May 2018

Dear StJP II Parents,

Each summer the school requires students to continue to read and practice their math skills, so that knowledge is not lost over the summer. Research has proven that 15-20 minutes of reading each day increases the amount of vocabulary a child learns, which in turn increases comprehension, all resulting in higher academic performance. By reading and reviewing math skills over the summer, teachers spend less time in the fall having to review.

Summer reading consists of two required books and related assignments. The reading assignments will be collected in August when school starts, and teachers will discuss the summer reading in class.

Summer math consists of math pages reviewing skills in preparation for the next school year to be collected in August. In addition, we have provided specific objectives which students in each grade level should practice using IXL software. While there is not a set amount of IXL practice required, the goal is to be proficient in the objectives or skills listed by August to help them have a successful start of the school year.

In Him we Trust,

A handwritten signature in cursive script that reads 'Rebecca Bogard'.

Rebecca Bogard, M.Ed.

Principal

SUMMER READING PROGRAM 2018-2019
St. John Paul II Catholic School

Summer reading is an important part of the educational growth of boys and girls. This reading should include pleasure reading and some materials that challenge students as well. Along with required books per grade level listed below, there are activity sheets that accompany these books. Please look for additional links on our website for Reading and Math activities. Required reading books are to be read at any time during the summer. A brief revisit to these books would be in order just before school starts as teachers use these books as the lesson material for the first few weeks of school. It is highly recommended that students have their own copy of the required books for this purpose.

For students who may wish to read more; many other popular books can be found at the HAISLN (Houston Area Independent School Library Network) list as well as others such as Caldecott and Newbery award winners that are available as links on the library resource page of the St. John Paul II Catholic School Website. Encourage your students and take the time to rediscover as a family, favorite childhood books. Additionally, many of the public libraries offer summer activities for all age readers as well. Look on the Library Resources Link on the Library Page for more ideas, activities, tips and hints and much more. Enjoy this valuable time reading with your child. Read every day! Happy Reading ~ Ms. Lamb

Students entering Pre-K in Fall of 2018 ~ Required read or read along with your child books

The Kissing Hand by Audrey Penn
Chicka Chicka Boom Boom by Bill Martin Jr.

Students entering Kindergarten in Fall of 2018~ Required read or read along with your child books.

Caps for Sale by Esphyr Slobodkina
The Very Hungry Caterpillar by Eric Carl

Students entering 1st Grade in Fall of 2018~ Required read or read along with your child books

Chrysanthemum by Kevin Henkes
If you give a mouse a cookie by Laura Numeroff

Students entering 2nd Grade in Fall of 2018~ Required 2 books

Magic Tree House No. 1 - Dinosaurs Before Dark by Mary Pope Osborne
Amazing Snakes by Sarah L Thomson

Students entering 3rd Grade in Fall of 2018 ~ Required 2 books

Any one of the "Who WAS..." Biographies by Grosset and Dunlap
Frecklejuice by Judy Blume

Students entering 4th Grade in Fall of 2018 Required 2 books

Tales of a Fourth Grade Nothing by Judy Blume
Charlie and the Chocolate Factory by Roald Dahl

Students entering 5th Grade in Fall of 2018~ Required 2 books

Flora and Ulysses by Kate DiCamillo
Frindle by Andrew Clements

Students entering 6th Grade in Fall of 2018~ Required 2 books

Star Girl by Jerry Spinelli
Loser by Jerry Spinelli

Students entering 7th Grade in Fall of 2018~ Required 2 books

Wonder by R J Palacio

PLUS any ONE of the following:

Dark Water Rising by Marian Hale

Come Juneteenth by Ann Rinaldi

The adventurous Deeds of Deadwood Jones by Helen Hemphill

Students entering 8th Grade in Fall of 2018 Required 2 books below

Ingri and Parin D'Aulaire's Book of Greek Myths

PLUS any ONE of the following

My Brother Sam is Dead by Collier and Collier

Cast Two Shadows by Ann Rinaldi

A Ride into Morning by Ann Rinaldi

April Morning by Howard Fast

Finishing Becca by Ann Rinaldi

GODS AND GODDESSES OF ANCIENT GREECE

God/goddess	realm	Possible symbol	Important Characteristics
ZEUS			
HADES			
POSEIDON			
HERA			
HESTIA			
DEMETER			
ATHENA			
HERMES			

God/goddess	realm	Possible symbol	Important Characteristics
ARTEMIS			
ARES			
APHRODITE			
DIONYSUS			
HEPHAESTUS			
APOLLO			

Mythology biographical poem

A biographical poem, or biopoem, uses a simple but specific structure to describe the most important facts about someone. Your assignment is to write a biopoem about one of the gods or goddesses you have read about. You may choose any god or goddess (except Aphrodite, because she's the example below). Follow this format exactly, please:

Aphrodite
Goddess of Love, Desire, Beauty and Fertility
A daughter of Zeus and Dione; wife of Hephaestus
Lover of sons Aeneas and Cupid and brother Ares
Who protects sailors
Who needs a chariot
Who fears War, Athena and Hera
Who gives Helen to Paris, a magic belt to Hera, and Medea to Jason
Resident of Mt. Olympus
Venus

Now – it's your turn! Use this form to write your rough draft. When you make the final copy to turn in, leave out the bolded phrase that tells you what to put on each line. Your finished biopoem should look like the example above.

Greek Name _____

I am (list four traits) _____

I am [a relative] of (1-3 people) _____

Lover of (1-3 things or people) _____

Who feels/protects (1-3 things) _____

Who needs (1-3 things) _____

Who fears (1-3 things) _____

Who gives (1-3 things) _____

Resident of _____

Roman Name _____

Name: _____

Book Title: _____

Fill in the boxes on the timeline, using events from your summer reading novel about the American Revolution. Each box should contain a picture or symbol, a phrase or sentence identifying the event, and the date the event took place. The boxes above the timeline should reflect major events in the life of the main character. The boxes under the timeline should reflect important events in the American Revolution. Make sure you put dates on the timeline and put your events in order!

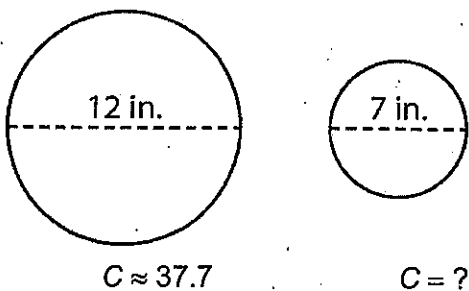
The form consists of a central horizontal arrow pointing to the right, representing a timeline. Above the arrow, there are five empty rounded rectangular boxes. Below the arrow, there are also five empty rounded rectangular boxes. These boxes are intended for students to write major events in the life of the main character (above) and important events in the American Revolution (below), including dates and descriptions.

Benchmark Test: Modules 1–4

1. Which of the following numbers is not equivalent to $-\frac{15}{3}$?
- A $\frac{-15}{-3}$ C $\frac{15}{-3}$
B $\frac{-15}{3}$ D -5
2. There are 4 cups in a pound of flour. A recipe for biscuits calls for $2\frac{3}{4}$ cups of flour to make a batch of 4 dozen biscuits. Antonio starts with a full 5-pound bag of flour and bakes 16 dozen biscuits. How much flour is left when he is finished baking?
- A 5 c C 11 c
B 9 c D $17\frac{1}{4}$ c
3. To which set or sets does the number 8 belong?
- A integers only
B rational numbers only
C integers and rational numbers only
D whole numbers, integers, and rational numbers
4. Jessica drank $\frac{1}{8}$ of a gallon of orange juice, and her brother Sam drank $\frac{1}{3}$ of the same gallon. How much of the gallon of orange juice did they drink?
- A $\frac{1}{11}$ gal
B $\frac{2}{11}$ gal
C $\frac{11}{24}$ gal
D $\frac{15}{24}$ gal
5. Meryl's bedroom is 4 meters wide. Which of these is an equivalent measurement?
- A 0.05 mi C 13.1 ft
B 4.2 yd D 118 in.
6. The sales tax in Mike's home city is 8.25%. Mike buys a sweater for \$49.95, two pair of slacks for \$68.59 each, and a suit for \$429.99. How much sales tax does Mike owe?
- A \$46.28 C \$52.46
B \$50.91 D \$509.72
7. To avoid a small private plane, a helicopter descends 2,640 feet in 3.2 minutes. What was the helicopter's average rate of descent per minute?
- A 528 ft/min
B 825 ft/min
C 1,200 ft/min
D 1,320 ft/min
8. Sherrod's cat weighs $6\frac{3}{5}$ pounds. What is the weight of Sherrod's cat written as a decimal?
- A 6.3 lb C 6.6 lb
B 6.5 lb D 6.8 lb
9. A used car is on sale for \$3,600. Eric offered the owner of the car $\frac{4}{5}$ of the asking price. How much was Eric's offer?
- A \$1,440 C \$3,240
B \$2,880 D \$4,500
10. Regina's cat eats $2\frac{1}{2}$ cans of food each day. The food cost \$0.79 per can. How much money does Regina spend on cat food in 4 days?
- A \$1.98 C \$7.11
B \$6.32 D \$7.90

Benchmark Test: Modules 1–4

11. What is the product of $(-2.6)(4.8)(-3)$?
 A -37.44 C 3.744
 B -374.4 D 37.44
12. One gallon of polyurethane covers 350 square feet. How many square feet will 2.5 gallons cover?
 A 352.5 ft^2
 B 700 ft^2
 C 875 ft^2
 D $1,050 \text{ ft}^2$
13. A bank pays 3% annual simple interest on CDs (certificates of deposit) of \$25,000. The Branson family invests in 3 of the \$25,000 CDs. How much interest does the family make in one year?
 A \$22.50 C \$2,250.00
 B \$225.00 D \$22,500.00
14. What is the circumference of the smaller circle?



- A 21.9 in. C 63.7 in.
 B 22.0 in. D 75.4 in.
15. A 12-pack of boxes of raisins costs \$4.86. Each box contains 1.5 ounces of raisins. To the nearest cent, what is the unit price of raisins per ounce?
 A \$0.13/oz C \$0.41/oz
 B \$0.27/oz D \$3.24/oz
16. Zachary spent \$61.50 for 15 gallons of premium gasoline. What was the price per gallon?
 A \$0.41 C \$4.10
 B \$1.41 D \$6.15

17. What is the percent change from 90 to 63?
 A 30% decrease
 B 30% increase
 C 35% decrease
 D 35% increase
18. Jakob is tiling the new finished basement in his house. He estimates that he tiles about 9 square feet every $\frac{3}{4}$ of an hour. How many square feet can Jakob tile per hour?
 A $6.75 \text{ ft}^2/\text{h}$ C $12 \text{ ft}^2/\text{h}$
 B $9.75 \text{ ft}^2/\text{h}$ D $36 \text{ ft}^2/\text{h}$
19. Mittens are marked down 25%. The sale price is \$3.15 a pair. What was the original price of a pair of mittens?
 A \$3.40 C \$4.20
 B \$3.94 D \$7.88
20. On Monday morning, Raj had \$225 in his checking account. The table shows activity in the account for the next four days. What was the balance in Raj's checking account on Friday?

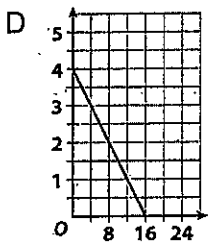
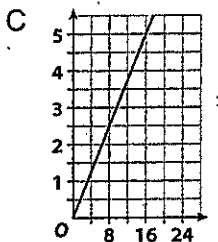
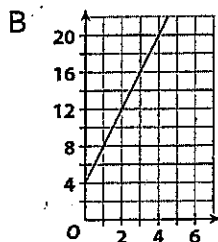
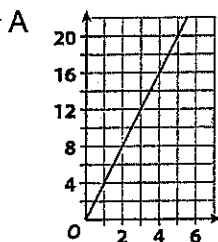
Day	Deposit	Withdrawal
Monday	none	\$27.25
Tuesday	\$75.50	none
Wednesday	\$32.19	\$61.95
Thursday	none	\$14.21

- A \$103.41 C \$332.28
 B \$229.28 D \$436.41
21. Mikela earned \$65.25 for 9 hours of work. This week she earned \$101.50 for 14 hours. Which equation represents the relationship between the hours worked, x , and Mikela's pay, y ?
 A $y = 7.25x$ C $y = 14x$
 B $y = 9x$ D $y = 23x$

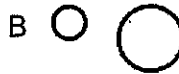
Benchmark Test: Modules 1-4

22. Which graph represents the relationship shown below?

$$y = 4x$$



23. Which of the following pairs of figures is **not** similar?

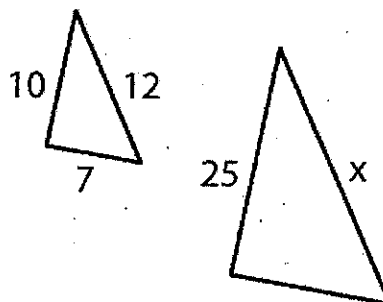


Benchmark Test: Modules 1–4

Write and mark your answers on the grids provided by your teacher.

24. A circular garden is enclosed by a fence that is about $78\frac{1}{2}$ feet long. To the nearest foot, what is the diameter of the circular garden? Use 3.14 for π .
25. A 5-pound bag of sugar costs \$1.90. What is the cost in dollars of 2 pounds of the sugar?
26. A gate that is 5 feet tall casts a shadow 9 feet long. The house behind the gate casts a shadow of 54 feet. About how many feet tall is the house?
27. Tom's Sporting Goods pays \$37 each for a certain brand of basketball. Tom marks up the price by 45%. To the nearest cent, what is the retail price in dollars of each basketball?
28. Uncooked oatmeal used to cost \$0.55 per pound. Then the cost was raised by 20%. What is the price in dollars and cents for 5.5 pounds of oatmeal at the new price?
29. The scale in a drawing is 2 in.:8 ft. On the drawing, a room is $3\frac{1}{2}$ inches long. What is the length in feet of the actual room?
30. An electric fan has a diameter of 13 inches. What is its circumference in inches to the nearest tenth? Use 3.14 for π .
31. Crunchee Corporation increases the size of its granola packages from 16 ounces to 20 ounces. What is the percent of increase in the size of Crunchee's granola packages?
32. Trey reads 10 pages in 25 minutes. At this rate, how many pages will he read in 45 minutes?
33. A circular dog bed has a circumference of about 72 inches. What is the diameter in inches of the dog bed to the nearest inch? Use 3.14 for π .

34. The price of a share of stock increases \$45.69 over 3 days. What was the average rate of change in its price in dollars per day?
35. What is $-64.4 \div (-3.22)$?
36. The two triangles below are similar. What is the length of side x ?



37. The table shows the amount of flour needed to make dough for a certain number of dog treats.

Dog Treats	30	45	105
Flour (c)	2	3	?

- How many cups of flour does it take to make 105 dog treats?
38. Dylan walked $5\frac{3}{5}$ miles. What is $5\frac{3}{5}$ written as a decimal?
 39. The scale of a blueprint is 3 in.:10 ft. On the blueprint, a house is 12.5 inches long. What is the length in feet of the actual house to the nearest foot?
 40. The wind-chill factor measures how cold it feels based on both temperature and wind speed. The wind-chill factor was 8°F at 6 P.M. and dropped to -8°F by 10 P.M. How many degrees did the wind chill factor decrease between 6 P.M. and 10 P.M.?
 41. Jennifer runs $4\frac{1}{4}$ miles a day. In 5 days, what is her total running distance in miles to the nearest tenth?

Mid-Year Test

1. A bag contains 8 red counters, 5 blue counters, and 3 green counters. What is the probability of **not** drawing a blue counter?

A $\frac{3}{16}$ C $\frac{11}{16}$
 B $\frac{1}{4}$ D $\frac{13}{16}$

2. The prize for winning a game at the school fair is a plush animal. The number of plush animals won by males and females is shown in the table below.

	Dog	Cat	Lion	Seal
Male	6	11	2	5
Female	9	5	3	7

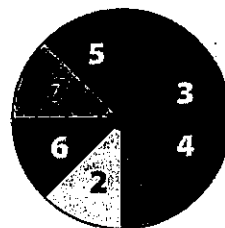
Based on the data, what is the probability that the next female will win a plush dog?

- A $\frac{1}{4}$ C $\frac{7}{16}$
 B $\frac{3}{8}$ D $\frac{2}{3}$
3. A truck rental company sells accident insurance to 32% of its customers. The company expects to rent 650 trucks during the next three months. How many renters are predicted to buy insurance?
- A 21 renters
 B 150 renters
 C 208 renters
 D 442 renters
4. A softball player gets a hit 22% of the times she is at bat. In 50 times at bat, about how many hits will the player get?
- A 11 times C 33 times
 B 22 times D 44 times

5. A local shop sells frozen yogurt in four flavors. The yogurt comes in a small, medium, or large cup. A customer can top the yogurt with sprinkles, crushed nuts, or coconut. How many different combinations of one flavor, one size, and one topping can a customer choose from?

A 9 C 12
 B 10 D 36

6. On the spinner below, what is the probability of spinning a 2 or a 3?



A $\frac{1}{8}$ C $\frac{5}{8}$
 B $\frac{3}{8}$ D $\frac{3}{4}$

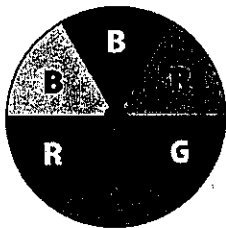
7. The records of a national magazine show that each year 12% of readers fail to renew their subscriptions. The magazine has 172,500 subscribers. How many of them can the magazine expect to lose this year?

A 870 subscribers
 B 17,250 subscribers
 C 20,700 subscribers
 D 36,792 subscribers

8. Brooke rolls two fair number cubes at the same time. What is the probability that the sum of the numbers she rolls is greater than 8?

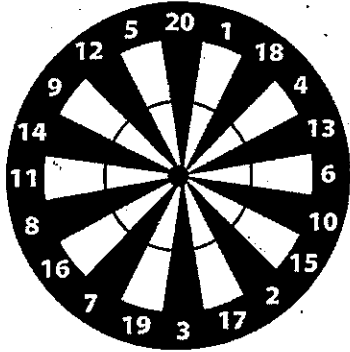
A $\frac{5}{18}$ C $\frac{5}{8}$
 B $\frac{1}{3}$ D $\frac{13}{18}$

Mid-Year Test

9. Arturo's gym membership costs \$100 per year plus \$20 per month. Which equation represents this relationship?
- A $y = 0.2x + 100$
 B $y = 2x + 100$
 C $y = 20x + 100$
 D $y = 100x + 20$
10. Students at Ramsey Middle School sold 450 raffle tickets. One-third of the ticket holders will win a prize, including 60 CDs, 70 books, and 20 gift certificates. What is the probability that a ticket selected at random will win a CD?
- A $\frac{1}{15}$ C $\frac{1}{5}$
 B $\frac{2}{15}$ D $\frac{1}{2}$
11. The spinner below has sections shaded red, blue, or green. What is the probability that the spinner will **not** land on a blue or a green section?
- 
- A $\frac{1}{3}$ C $\frac{2}{3}$
 B $\frac{1}{2}$ D $\frac{5}{8}$
12. A 4-digit security code uses only the numbers 5, 6, 7, and 8. Any number can be repeated. What is the probability a code selected at random is 7777?
- A $\frac{1}{512}$ C $\frac{1}{128}$
 B $\frac{1}{256}$ D $\frac{1}{64}$
13. A shelf contains DVDs: 11 dramas, 7 science fiction, 9 comedies, and 6 horror films. You choose a DVD from the shelf without looking. What is the probability the DVD will be a drama?
- A $\frac{2}{11}$ C $\frac{1}{3}$
 B $\frac{3}{11}$ D $\frac{1}{2}$
14. Which of the following values is a solution to the equation below?
- $$5p - 20 = 35$$
- A -11 C 3
 B -3 D 11
15. You roll a fair number cube and flip a coin at the same time. What is the probability that you roll a 5 and flip a heads?
- A $\frac{1}{12}$ C $\frac{1}{4}$
 B $\frac{1}{6}$ D $\frac{1}{3}$
16. At his job Lee earns \$400 per week plus a 6% commission on his sales. He wants to earn at least \$550 this week. Which of the following represents this situation?
- A $400 + 0.06s = 550$
 B $400 + 0.06s \neq 550$
 C $400 + 0.06s \geq 550$
 D $400 + 0.06s \leq 550$
17. Historically, a college accepts about 15% of applicants. This year 4,880 students applied. About how many will be accepted?
- A 683 students
 B 732 students
 C 4,148 students
 D 5,612 students

Mid-Year Test

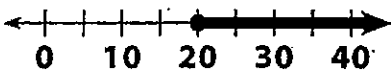
18. Sienna throws a dart at the dartboard below at random. What is the probability she will land on a white section with an odd number?



- A $\frac{3}{10}$ C $\frac{7}{40}$
 B $\frac{7}{20}$ D $\frac{7}{20}$
19. A museum has 639 pieces of African art in its collection. This is 55 fewer pieces of art than one-third of the art pieces the museum has from Europe. Which equation can you use to find n , the number of European art works in the museum's collection?

- A $\frac{1}{3}n - 55 = 639$
 B $\frac{1}{3}n + 55 = 639$
 C $3n - 55 = 639$
 D $3n + 55 = 639$

20. Which inequality is represented by the number line below?



- A $5x - 15 \leq 85$
 B $5x + 15 \leq 85$
 C $5x - 15 \geq 85$
 D $5x + 85 \geq 15$

21. In the first half of basketball practice, Daniel made 6 out of 15 free-throws. About how many of the next 10 free-throws would you expect him to make?

- A -2 free-throws
 B 3 free-throws
 C 4 free-throws
 D 5 free-throws

22. At a lunch stand, customers can choose roast beef, roasted vegetable, or chicken sandwiches. They can have their sandwich made on white, rye, or whole-wheat bread. How many different sandwiches can customers choose?

- A 1 sandwich
 B 3 sandwiches
 C 6 sandwiches
 D 9 sandwiches

23. A pet store has 15 puppies, 12 kittens, and 6 rabbits. Which animals are in a ratio of 5:2?

- A puppies to kittens
 B kittens to rabbits
 C puppies to rabbits
 D kittens to puppies

24. Which shows the solution to the inequality

$$-4x > 36$$

- A $x > -9$ C $9x < 9$
 B $x > 9$ D $x < -9$

25. Misha has \$20 to spend at a book fair. The admission is \$5 and each new paperback is \$2.00. Which inequality expresses the number of new paperbacks that Misha can buy?

- A $2p - 5 \geq 20$
 B $2p + 5 \leq 20$
 C $5p - 2 \leq 20$
 D $5p + 2 \leq 20$

Mid-Year Test

Write and mark your answers on the grids provided by your teacher.

26. During his first 20 random picks from a bag of marbles, Kai chose 8 yellow, 3 green, and 9 blue marbles. He replaces the marble each time. What is the experimental probability that Kai will choose a green marble on his next pick? Write your answer as a percent.

27. The probability that a passenger will show up for a scheduled airline flight is 95%. If a plane holds 320 passengers, about how many passengers are **not** likely to show up for a sold-out flight?

28. A car rental company charges \$29.95 a day plus \$0.40 per mile. How much will a two-day rental and 185 miles cost?

29. A pizza parlor offers five toppings: mushrooms, basil, olives, broccoli, and peppers. What is the probability that a random order of a two-topping pizza will be mushrooms and peppers? Write your answer as a decimal.

30. A bag contains the coins shown.

Penny	Nickel	Dime	Quarter
21	14	10	5

A coin is randomly selected from the bag. What is the probability that it will be worth more than five cents? Write your answer as a decimal.

31. An animal clinic charges \$40 for vaccinations of kittens and \$55 for vaccinations of puppies. Last week, the clinic earned \$1,450 from vaccinations, including 14 puppies. How many kittens were vaccinated at the clinic last week?

32. Rashida has 3 blouses: red, white, and pink. She has 2 skirts: blue and black. She has 2 pairs of shoes: red and white. What is the probability that Rashida selects an outfit at random that does **not** include a blue skirt? Write the probability as a percent.

33. A store sells binders in three sizes and five colors. The table shows the sales of the last 500 binders.

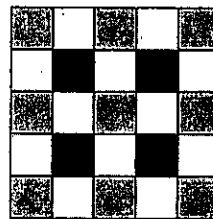
Size	Blue	Red	Gray	Green	Black
Small	18	75	37	48	60
Medium	29	30	34	23	39
Large	18	27	21	19	22

What is the probability that the next customer buys a small black binder? Write your answer as a decimal.

34. A recent survey shows that running is the favorite exercise of 23 out of 50 people age 18 years or older. What is the probability that a 21-year-old male's favorite exercise will **not** be running? Write your answer as a decimal.

35. On the last math test in Ms. Asantawa's class, 11 out of 25 students scored an 85 or greater. What is the experimental probability that a student selected at random will score an 85 or greater on the next test? Write your answer as a percent.

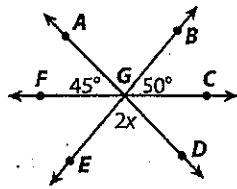
36. A painted floor cloth is decorated with black, white, and gray squares as shown below.



What is the probability that a coin thrown at random will land on a white square? Write your answer as a decimal.

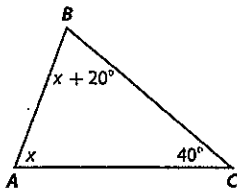
Benchmark Test Modules 9–12

Use the figure for 1–3.



- What is the measure of $\angle CGD$?
 A 45° C 60°
 B 50° D 85°
- What is the measure of $\angle EGD$?
 A 50° C 90°
 B 85° D 95°
- Which are not adjacent angles?
 A $\angle AGF$ and $\angle FGE$.
 B $\angle BGC$ and $\angle CGD$
 C $\angle FGB$ and $\angle BGC$
 D $\angle FGE$ and $\angle BGC$

Use the figure for 4 and 5.



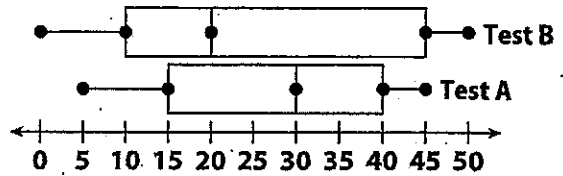
- What is the value of x ?
 A 30° C 70°
 B 60° D 80°
- What is the measure of $\angle ABC$?
 A 50° C 70°
 B 60° D 80°

Use the data below for 6 and 7.

7, 9, 8, 7, 2, 6, 7, 11, 9, 7, 5, 7, 3

- What is the mode of the data?
 A 2 C 7
 B 5 D 11
- What is the median of the data?
 A 2 C 7
 B 5 D 11

Use the box plots for 8–11.



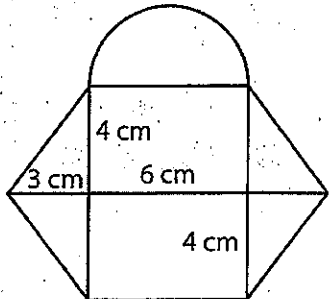
The plots represent the results of the last two tests taken by Joleen's math class. Each test had 50 questions.

- What is the difference between the medians for Test A and Test B?
 A 10 C 40
 B 35 D 50
- What is the interquartile range of Test B?
 A 25 C 45
 B 35 D 50
- What is the median of Test B?
 A 20 C 40
 B 30 D 50
- What is the range of Test A?
 A 10 C 40
 B 30 D 50
- The radius of a circular hatbox is 8 inches. What is the circumference of the hatbox to the nearest hundredth of an inch? Use $\frac{22}{7}$ for π .
 A 12.57 in.
 B 50.29 in.
 C 100.57 in.
 D 502.86 in.
- A circular garden has a diameter of 20 yards. What is the area of the garden to the nearest square yard? Use 3.14 for π .
 A 314 yd^2
 B 628 yd^2
 C $1,256 \text{ yd}^2$
 D $3,140 \text{ yd}^2$

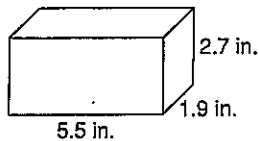
Benchmark Test Modules 9–12

14. The circumference of the wheel on Beyoncé's bicycle is 63 inches. What is the diameter of the bicycle wheel to the nearest inch? Use 3.14 for π .
- A 12 in. C 20 in.
 B 18 in. D 32 in.

15. What is the area of the figure to the nearest square centimeter?

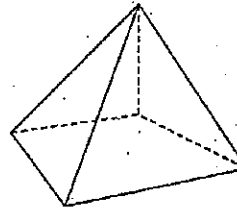


- A 50 cm² C 100 cm²
 B 86 cm² D 129 cm²
16. A stamp is in the shape of an isosceles triangle. The measure of the angle at the top of the stamp is 80°. Which of the following could be the measure of each base angle?
- A 40° C 80°
 B 50° D 85°
17. What is the volume of the prism to the nearest tenth of an inch?



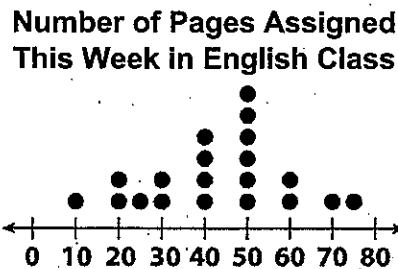
- A 10.1 in.³ C 28.2 in.³
 B 20.2 in.³ D 56.4 in.³
18. A newspaper is surveying voters from Idaho regarding voting issues. Which is the most appropriate population to sample for this survey?
- A people living in the state of Idaho
 B voters in Boise, the capital of Idaho
 C people of voting age in the U.S.
 D voters living in the state of Idaho

19. Which term describes the figure below?



- A rectangular pyramid
 B rectangular prism
 C triangular prism
 D triangular pyramid

Use the dot plot for 20–23.



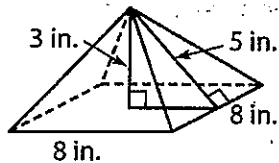
20. What is the mode of this set of data?
- A 20 pages C 40 pages
 B 25 pages D 50 pages
21. What does the mode of this set of data represent?
- A the number of students that were assigned 50 pages in English this week
 B 50 percent of students given a reading assignment in English
 C the greatest number of pages assigned in English this week
 D the average number of pages assigned in English this week
22. What is the mean of this set of data?
- A 42.5 pages C 45 pages
 B 43 pages D 50 pages
23. What is the median of this set of data?
- A 40 pages C 50 pages
 B 45 pages D 60 pages

Benchmark Test Modules 9–12

24. A circular rug has a diameter of 6 feet. To the nearest foot, what is the rug's circumference? Use 3.14 for π .

- A 12 ft C 30 ft
 B 19 ft D 38 ft

Use the figure for 25 and 26.



25. To the nearest cubic inch, what is the volume of the pyramid?

- A 16 in.³ C 64 in.³
 B 48 in.³ D 128 in.³

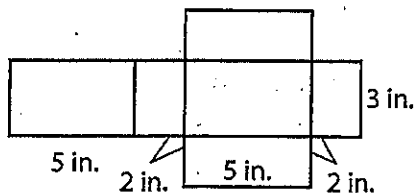
26. To the nearest tenth, what is the surface area of the pyramid?

- A 64 in.² C 100 in.²
 B 80 in.² D 144 in.²

27. In a random survey of 50 students at Ryland Middle School, 32 said chocolate was their favorite flavor of yogurt. The school has 450 students. How many of them are likely to select chocolate as their favorite flavor?

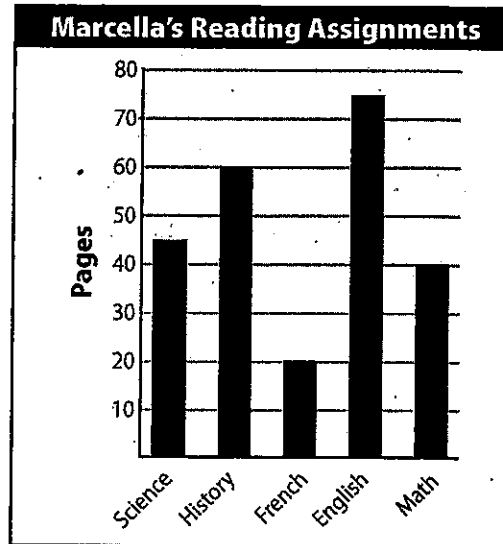
- A 144 students C 225 students
 B 162 students D 288 students

28. The net below forms a rectangular prism. To the nearest square centimeter, what is the total surface area of the prism?



- A 49 cm² C 70 cm²
 B 62 cm² D 98 cm²

Use the bar graph for 29 and 30.



The bar graph shows the number of pages in each school subject that Marcella must read this week.

29. What percent of Marcella's total reading is history?

- A 8% C 45%
 B 25% D 60%

30. What percent of Marcella's total reading is anything but English? Round your answer to the nearest whole percent.

- A 8% C 33%
 B 25% D 69%

31. Which of the following is a random sample?

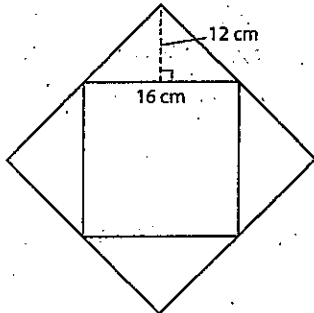
- A Representatives of a polling organization survey 500 people who bought new cars by randomly selecting their names from customer purchase lists.
 B A car dealership representative talks to the last 10 purchasers of new cars.
 C Owners of 20 new cars are surveyed as they leave a drive-in fast-food restaurant.
 D Owners of 50 hybrid cars are interviewed at gas stations.

Benchmark Test Modules 9–12

Write and mark your answers on the grids provided by your teacher.

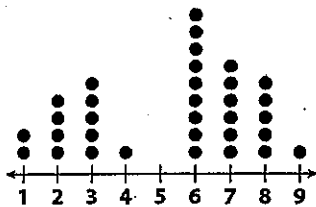
32. A wheel has a diameter of 15 inches. To the nearest inch, how many inches is its circumference? Use 3.14 for π .

Use the net for 33 and 34.

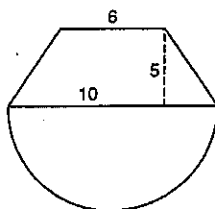


33. To the nearest square centimeter, what is the total surface area of the pyramid?
34. To the nearest hundredth, how many cubic centimeters is the volume of the pyramid?

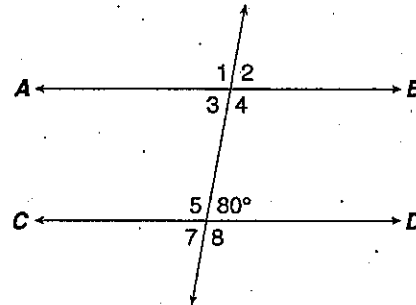
Use the dot plot for 35–38.



35. What is the mode of the data?
36. What is the median of the data?
37. What is the mean of the data? Round your answer to the nearest hundredth.
38. What is the range of the data?
39. The probability of choosing a winning raffle ticket is 5%. If 285 people buy raffle tickets, about how many tickets will be winners?
40. To the nearest tenth, how many square inches is the area of the figure below? Use 3.14 for π .

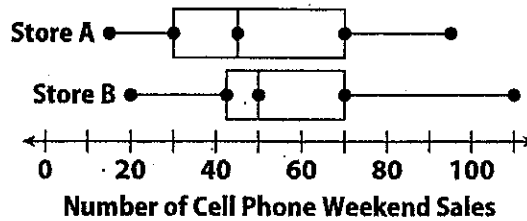


Use the figure for 41–43.



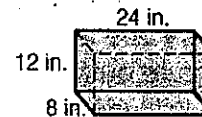
41. How many degrees does $\angle 3$ measure?
42. How many degrees does $\angle 4$ measure?
43. How many degrees is the sum of the measures of $\angle 7$ and $\angle 8$?

Use the box plots for 44 and 45.



44. What is the median number of sales during the weekend at Store A?
45. What is the range of sales during the weekend at Store B?
46. A store receives an order of 1,200 MP3 players. The manager randomly selects 40 MP3 players and finds that 2 of them are defective. Based on the sample, how many MP3 players in the shipment can you expect to be defective?

Use the prism for 47–49.



47. How many cubic inches is the volume of the prism?
48. Suppose each dimension of the prism is doubled. How many cubic inches is the volume of the enlarged prism?

St. John Paul II Catholic School
IXL Math Practice - Summer 2018

Dear StJP II Family,

Each summer we recommend that our students practice their math skills. In the chart below is a list by grade level of the concepts for further practice using the IXL math software online at www.ixl.com/signin/johnpaul. **IMPORTANT:** The grade levels indicated on the left hand side of this column are for the grade levels they will be **entering in the fall**.

Grade level students are entering in the fall of 2018	Concepts to practice and review for the 2018-2019 school year:
Incoming 1st graders	Addition and subtraction facts to 12; place values (ones, tens)
Incoming 2nd graders	Addition and subtraction facts to 18; place value (ones, tens, hundreds)
Incoming 3rd graders	Addition and subtraction facts through 20; place value (ones, tens, hundreds, thousands); addition and subtraction problems with regrouping (up to three digits).
Incoming 4th graders	Multiplication and division facts memorized through 9's; place value (ones, tens, hundreds, thousands, ten-thousands) addition and subtraction problems with regrouping (up to four digits)
Incoming 5th graders	Multiplication and division facts memorized through 12's; fractions (equivalent, simplest form, mixed numbers, improper); addition and subtraction of fractions with like denominators; division of whole numbers with one and two digit divisors
Incoming 6th graders	Addition, subtraction, multiplication of decimals, fractions and mixed numbers; order of operations; exponents; mean, median, mode and range; solve problems related to area and perimeter
Incoming 7th graders	Computation and word problems for fractions and decimals; word problems for percents and money
Incoming 8th graders	Computation and word problems for fractions, decimals, and integers; all skills associated with percents and proportions