7th

Welcome to Middle School at St. Joseph School!

Dear Students and Guardians

Welcome back to middle school all of our seventh and eighth grade students. We welcome the sixth grade students to our team. To simplify things the middle school teachers are requiring the same materials for 6th, 7th and 8th grade students. The list includes everything you need for your homeroom as well as all other classes. Here is what you need to bring on the first day of school:

- 2 boxes of Kleenex for classroom use
- 1 roll of paper towels for classroom use
- 2 Clorox wipes containers for classroom use
- 2 packages disinfecting wipes for classroom use
- 2 pairs of headphones/ear buds for In School Chrome book (must be left in school)
- You can bring your own chrome book to school but please see Miss Serio to register it on first day of school
- 6 single subject notebooks
- One package of blue or black pens (no other colors)
- One package of red pens for making corrections
- One package of hi- lighters
- One package of pencils for Math
- Glue sticks (2or3)
- Scissors
- Correction tape (no Liquid white-out)
- A one inch binder for Writing
- Package of tabbed dividers for Writing binder
- A one inch binder for Math (separate from Writing)
- 3x3 inch Post-it notes and ½ x1 ¾ inch post it tabs(for literature)
- A box or zippered container to hold school supplies
- A Box of colored pencils

8th grade students mandatory and optional 7th grade students

Purchase a Texas Instrument (TI 84) calculator. Stores run sales periodically, so look for special pricing

Dear Parents,

Students in Middle school are asked to purchase a Daily Planner book and Scholastic magazines for the year. The cost for both is $20.00. (If paying by check make it out to St. Joseph School) Please bring in payment the first day of school. Teachers will send home planners when payment is received.

Thank you

Middle School Teachers

Enjoy the summer break, but remember not to wait until the last minute to complete the assignments. If you have any questions, please email us. Thank you

6th grade homeroom – Mrs. Laferriere for middle school Science and World Language and 6th grade Social Studies

laferriere@stjosephbristol.org

7th grade homeroom – Miss Serio for middle school Language Arts and Literature and 7th grade History and Religion

serio@stjosephbristol.org

8th grade homeroom – Mr. Houle for middle school Math and 8th grade History and Religion

houle@stjosephbristol.org

Middle School Summer Reading Book Report Assignment

Directions: You are to choose ONE book from the Nutmeg Book Award Nominee lists (Middle school lists for grades 7 & 8 or Intermediate 4-6 for Grade 6)or the ALSC Summer Reading List for Grades 6-8. After reading, complete ONE of the questions below. Your question must be one FULL page (that means top to bottom of page) typed in MLA format. Be sure to type the question you are responding to beneath the heading.

1. What important lesson does your character learn in the story? Use examples from the story to support your answer.
2. If you wanted to describe how the main character changed in the story, choose the event that was most important. Describe the event and explain why it changed the character.
3. Think about what this story says about people in general. In what ways does it remind you of people you have read about? Support your answer with evidence from the story.
4. Choose the part of the story that you think was most important. Use information from the story to support your answer.
5. What will your character probably do next? Why do you think so? Use information from the story to support your answer.
6. Write an entry that could have appeared in your character's journal.
7. Which part of the story was most interesting or surprising? Use information from the story to support your answer.
8. Would you recommend this book to anyone? Why or why not? Discuss the character, the main conflict or how it is or isn't resolved or how realistic the character seems in his or her quest to resolve the conflict or how the author revealed the theme through the character and his or her problem. Is this how you would have handled the problem the character has? Why or why not? These are the reasons why we do or do not like books.

SUMMER READING LIST

Grades 6–8

BOOKS

ALMA PRESSES PLAY
BY TINA CANE
MAKE ME A WORLD, 2021
ISBN: 9780593121146

In this verse novel, half-Chinese, half-Jewish Alma comes to terms with her parents' divorce, her mother's move to a new state, a challenging end-of-the-year project, and her feelings about boys.

BLACK BIRD, BLUE ROAD
BY SOFIYA PASTERNACK
VERSIFY, 2022
ISBN: 9780358572039

This historical fantasy novel includes deep philosophical questions about life and death, alongside adrenaline-filled action, as a Jewish girl attempts to save her dying brother by any means necessary.

THE CHRONICLES OF DELTOVIA
BY OLIVIA JAIMES
ANDREWS MCMEEL, 2022
ISBN: 9781524871567

Middle-schoolers June, Misha, and Ollie decide to cowrite and illustrate their own book about a magical land called Deltovia. Their individual personalities and quirks come through in the different ways they approach the story and life.

THE DAVENPORTS
BY KRYSTAL MARQUIS
DIAL, 2023
ISBN: 9780593463338

In this historical fiction novel set in 1910s Chicago, a group of Black teens takes us into an often-overlooked side of American history: the lives of wealthy African Americans and their experience of classism, familial expectations, and gender norms.

DEMON IN THE WOOD
BY LEIGH BARDUGO, ILLUSTRATED BY DANI PENDERGAST
ROARING BROOK, 2022
ISBN: 9781250624642

The first graphic novel in the Grishaverse world offers a new format for fans and welcomes those new to the series. Readers will dive into the Darkling's backstory.

THE DOOR OF NO RETURN
BY KWAME ALEXANDER
LITTLE, BROWN, 2022
ISBN: 9780316441865

Kofi, an eleven-year-old boy from the village of Upper Kwanta, is ripped away from his family and community in this gripping novel in verse.

FREESTYLE
BY GALE GALLIGAN
GRAPHIX, 2022
ISBN: 9781338045819

Cory navigates changing friendships and social pressures while learning cool yo-yo tricks in this graphic novel.

FRIZZY
BY CLARIBEL A. ORTEGA, ILLUSTRATED BY ROSE BOUSAMRA
FIRST SECOND, 2022
ISBN: 9781250259622

Dominican tween Marlene learns to care for and appreciate her curly hair in this vibrant graphic novel about colorism, beauty standards, and self-acceptance.

GROWING PANGS
BY KATHRYN ORMSBEE, ILLUSTRATED BY MOLLY BROOKS
RANDOM HOUSE, 2022
ISBN: 9780593301289

A graphic novel about the first time at sleepaway camp, feeling different as a homeschooled student, and traversing the ever-present effects of OCD.

I LIKE ME BETTER
BY ROBBY WEBER
INKYARD PRESS, 2023
ISBN: 9781335453648

Another heartwarming summer rom-com from Weber. When your summer plans fall apart, love can show up in unexpected places. Zack takes the fall for his soccer team and ends up having to do community service for the summer.

INVISIBLE
BY CHRISTINA DIAZ GONZALEZ, ILLUSTRATED BY GABRIELA EPSTEIN
GRAPHIX, 2022
ISBN: 9781338194555

In this graphic novel, five middle-school students find out that they have been lumped together because their teachers assumed, since they all speak Spanish, that they'd have tons in common. This couldn't be farther from the truth!

KARTHIK DELIVERS
BY SHEELA CHARI
AMULET, 2022
ISBN: 9781419755224

Rising ninth-grader Karthik spends the summer of 2009 working as the delivery boy for his family's failing grocery store. Unbeknownst to his family, he's also acting in a play about Leonard Bernstein.

THE KATE IN BETWEEN
BY CLAIRE SWINARSKI
QUILL TREE BOOKS, 2021
ISBN: 9780062912701

Kate is being celebrated after rescuing a classmate from drowning, but what happens when everyone finds out what really happened that day at the lake?

THE LAST MAPMAKER
BY CHRISTINA SOONTORNVAT
CANDLEWICK, 2022
ISBN: 9781536204957

Sai, an assistant to Mangkon's best mapmaker, is working hard to make her life better. A mapmaking trip to explore the Sunderlands, a place with dragons and other treasures, might be the way to achieve that.

LOLO'S LIGHT
BY LIZ GARTON SCANLON
CHRONICLE BOOKS, 2022
ISBN: 9781797212944

The morning after twelve-year-old Millie babysits for her neighbors, she learns that the infant she watched passed away

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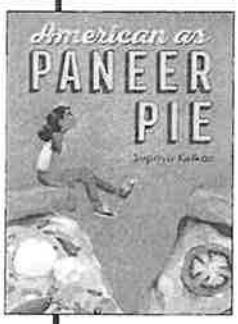
ASSOCIATION FOR LIBRARY SERVICE TO CHILDREN

2024 Nutmeg Book Award Intermediate Nominees

Grades 4-6

The Accidental Apprentice *by Amanda Foody*

Barclay is an apprentice to a local mushroom farmer. One of the rules in his town is to NEVER go in the woods. One day though, while searching for a mushroom, he becomes an apprentice to something even bigger than he thought, which alters his whole identity, and life itself.



American as Paneer Pie

by Supriya Kelkar

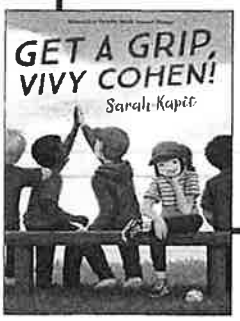
Lehka, a Desi girl, gets bullied a lot at school. She finds herself feeling alone and doesn't know how to do anything about it. But then, another Desi girl comes to town and shows Lehka how to stand up for herself!

The Beast and the Bethany *by Jack Meggitt-Phillips, art by Isabelle Folath*

Ebenezer Tweezer is a week away from his 512th birthday thanks to the beast in his house that keeps him alive (and looking so young)! But the beast needs to be fed, and this time, it is demanding a child. Will a terrible little girl like Bethany satisfy its hunger?

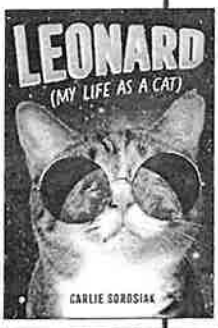
Ben Yokoyama and the Cookie of Doom *by Matthew Swanson & Robbi Behr*

After ordering Chinese food for the first time, eight-year-old, noodle-loving Ben Yokoyama receives an intriguing fortune cookie message. Can Ben and best friend Janet fulfill his fortune while avoiding his love of mischief?



Get a Grip Vivy Cohen! *by Sarah Kapit*

Vivy Cohen has perfected her knuckle ball. Now, she must convince her overprotective mother to let her join a real team. Told through a series of letters and emails between Vivy and all-star VJ Capello; will Vivy be able to prove once and for all what an amazing pitcher she is?



Leonard (My Life as a Cat) *by Carlie Sorosiak*

Leonard is an alien visiting earth…as a cat. Taken in by animal lover, Olive, he has 30 days to travel 2,000 miles to his rendezvous point, or he'll be stuck on Earth forever…as a cat. But after he grows close to Olive, is home with her or with his species?

The Lion of Mars

by Jennifer L. Holm

Life on Mars has a lot of rules, like 'Don't go beyond the compound.' Now all the adults are sick. When Bell and the other kids find a secret tunnel--leading to another colony--can they bend the rules and overcome the adults' distrust of others to find help and save themselves?

Raising Lumie

by Joan Bauer

Moving to a new town with her older sister is enough of a challenge for Olive. Throw in training a sweet new puppy to be a seeing eye dog, and Olive has her hands full. How will she manage it all?

Scritch Scratch

by Lindsay Currie

After Claire starts being haunted by a real ghost while helping her dad with his ghost tour business, she knows she needs to investigate! In her investigation, she learns about Chicago's history while also learning about a little boy, eerily similar to the ghost on the bus.

Witches of Brooklyn

by Sophie Escabasse

When a famous star shows up at your house asking for help, you have to answer the door, right? But what happens when reality interrupts perception-it's witches to the rescue!

NUTMEG BOOK AWARD
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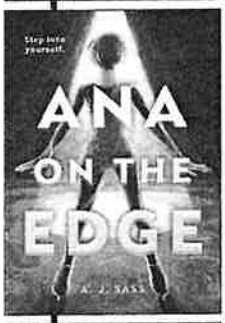
2024 Nutmeg Book Award Middle School Nominees

Grades 7-8

Amari and the Night Brothers *by B. B. Alston*

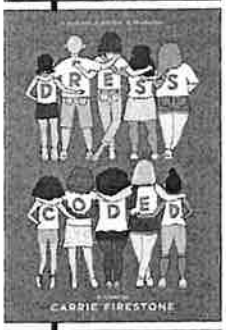
Following the disappearance of her older brother, Amari is introduced to a new world full of magic, where she must compete to take his place at the Bureau of Supernatural Affairs. Yet, not only is she at a disadvantage against her more magic-savvy peers, a shocking turn of events reveals she may be more powerful than she realizes. Will Amari be able to emerge triumphant and find her brother - before it's too late?



Ana on the Edge

by A. J. Sass

Twelve-year-old Ana has been a competitive figure skater for years. This year is a hard year for Ana because her coach moved rinks which makes her commute long and her practice days hard. It affects her friendship and her new competition level brings hardships she wasn't expecting. This leads to new friendships and more questions than Ana ever knew existed.



Dress Coded

by Carrie Firestone

After witnessing a classmate humiliated over her outfit, 8th grader Molly Frost starts a podcast to protest her school's unfair dress code. As more and more students share their stories of being "dress coded," her protest snowballs into a full fledged revolution.

Fighting Words

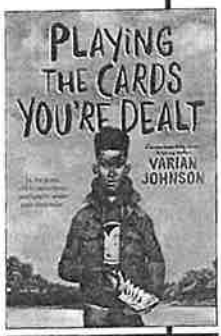
by Kimberly Brubaker Bradley

Della and her older sister Suki are inseparable. Ever since their mother went to jail and her boyfriend took them, Suki has taken care of and protected Della. When the girls are sent to live in foster care things start to improve. But an incident involving Suki makes Della realize how much her big sister has shouldered. To get the help they need, Della must learn to speak up.

Other Words for Home

by Jasmine Warga

Jude leaves behind her brother and father to travel to the United States with her mother for refuge. Trying to bridge the differences between her Syrian life and her new home in Cincinnati, Jude searches for an identity that fits all of her.



Playing the Cards You're Dealt *by Varian Johnson*

Ten-year-old Anthony ("Ant") Joplin is navigating fifth grade, girls, best friends, and the family tradition of competing in the annual Spades Tournament. If that isn't enough, secrets threaten to tear it all apart in this hopeful look at legacies.

Spin *by Lamar Giles*

When rising star DJ Parsec is found murdered just before a big show, her ex-best friend Kya and biggest fan Fuse are determined to find out who killed her and why. But uncovering the truth may be more dangerous than they realize.

Stowaway

by John David Anderson

The ship was all Leo has known for the past 3 years. His father brought the whole family on the Ayakari ship, and they are showing no signs of stopping. That is, until the pirates come. Bonded by trauma, an unlikely alliance forms between child and pirate, looking to stop the evil encroaching on their land in this action-packed sci-fi novel.

Swim Team

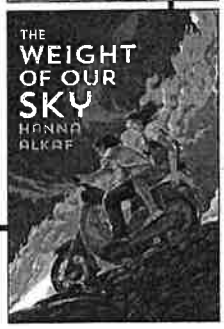
by Johnnie Christmas

When Bree and her father move from New York to Florida, she can't wait to join her new Middle School STEM club. But when the only elective she can fit in her schedule is Swim 101, she's not only faced with learning to swim, but with helping her school swim team make it to the State Championships.

The Weight of Our Sky

by Hanna Alkaf

After getting separated from her mother, Melati must navigate her war-town home of Kuala Lumpur, Malaysia in an effort to reunite with her. However, Mel is contested by Chinese rioters as well as her own OCD, which manifests as a djinn within her mind. Joined by a Chinese boy named Vincent, Mel must overcome all that stands in her way to ensure her mother's safety.



NUTMEG BOOK AWARD
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Dear incoming 7th and 8th grade parents,

Now that the current academic year has come to a close and we look forward to summer, we also look forward to the upcoming year. It has been determined that all eighth grade students will be taking algebra during the upcoming academic year. It is requested that all students consider purchasing a TI-84 calculator. The cost can range from $125.00 and up. Look for the sales over the summer. This machine will be used often throughout the current academic year on into college. It is suggested that parents consider obtaining the optional insurance plan offered at the time of purchase due to accidents. Please be advised that there will be a considerable amount of homework for class. (On average 30 to 40 minutes four times a week depending on the type of lesson).

I would like to also inform parents that additional work assignments found on the computer/chromebook may also be required. I look forward to working with your sons and daughters in the upcoming school year. I promise, they will be challenged.

Respectfully,

Mr. Houle

Summer Packet

Grade 7

Dear Students,

This math packet is to be completed by the beginning of the upcoming school year and will be counted as a grade. Students failing to pass in the assignment at this time will result in a zero. All students should continue to practice their times tables up to 15 in addition to taking time to practice on Kahn Academy.

Have a great summer!

Mr. Houle

Name _____ Class _____ Date _____

Form A

1. What is the value of the digit 6 in 43.16?

2. Round 170.366 to the nearest hundredth.

3. Which property is represented by this mathematical statement?
$8 + 1 = 1 + 8$

4. Find the sum. $19.2 + 60.75 + 0.1$

5. Dan earns $6.90 per hour cutting grass. How much does he earn in 37.5 hours?

6. Evaluate the expression.
$8p - (2p + 5)$ for $p = 1.5$

7. Write a word phrase that describes the algebraic expression $12m + 3$.

8. Solve the equation. $k + 3.4 = 9$

9. If 6 times m is equal to 42, what is the value of m?

10. Find the missing exponent that makes the equation true.
$108 = 4 \times 3^{\underline{?}}$

11. Find all the digits that make 1,93_?_ divisible by both 2 and 3.

12. Which of the following numbers is NOT prime?
7, 17, 27, 37

13. Write $\frac{18}{22}$ in simplest form.

14. Compare. Fill in the _?_ with <, >, or =.
$2\frac{4}{9}$ _?_ $\frac{7}{3}$

15. Write each fraction as a decimal. Then find the difference as a decimal.
$\frac{1}{4} - \frac{5}{25}$

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16. Replace the $\frac{?}{}$ with a number that will make the equation true.
$\frac{3}{11} + \frac{?}{11} = \frac{10}{11}$

17. Find the sum. Write your answer in simplest form.
$\frac{1}{9} + \frac{1}{18} + \frac{2}{3}$

18. At birth, one puppy weighs $\frac{15}{16}$ pounds. A second puppy weighs $1\frac{1}{8}$ pounds. How much more did the second puppy weigh?

19. Solve. $x + 3\frac{7}{9} = 7\frac{1}{3}$

20. A movie ends at 7:45 P.M. The next movie begins 50 minutes later. What time does the next movie begin?

21. Find the product. Write your answer in simplest form.
$\frac{10}{24} \cdot \frac{16}{18}$

22. Which quotient is NOT equal to the others?
$\frac{2}{3} \div \frac{1}{2}$, $\frac{2}{9} \div \frac{1}{6}$, $\frac{1}{2} \div \frac{3}{2}$, $\frac{4}{9} \div \frac{1}{3}$

23. Solve. $12\frac{1}{2}r = 2\frac{1}{2}$

24. Add.
8 ft 7 in.
+ 9 ft 11 in.

25. Use <, >, or = to complete the statement.
100 oz $\frac{?}{}$ $6\frac{1}{2}$ lb

26. Write the ratio 48 : 64 in simplest form.

27. It takes 3 cups of flour to make 24 cookies. How many cups of flour will you need to make 60 cookies?

28. Write 45% as a decimal and as a fraction in simplest form.

29. 85 out of 200 workers in a building arrive at 8:00 A.M. What percent of workers in the building do NOT arrive at 8:00 A.M.?

30. Write 750% as a decimal.

31. Find the mean, median, and mode of the data set to the nearest tenth.
4.5, 7, 4.1, 6.5, 7.1, 6.5, 5.3

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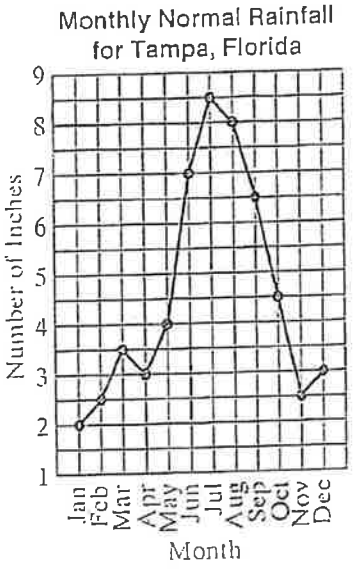
Name _____ Class _____ Date _____

(continued) **Form A**

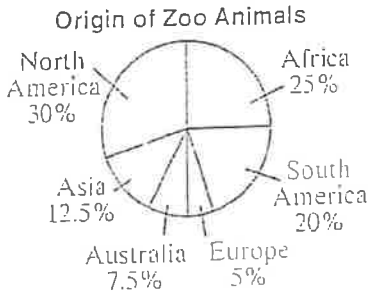
Use the line graph below for Exercises 32–33.



32. In which month is the amount of rainfall the greatest?

33. What is the range of the data?

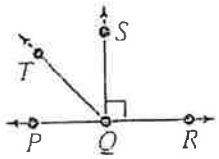
Use the circle graph below for Exercises 34–35.



34. What percent of zoo animals did NOT originate in North America?

35. What percent of zoo animals originated in North or South America?

Use the diagram below for Exercises 36–37.



36. Name two complementary angles.

37. Name an obtuse angle.

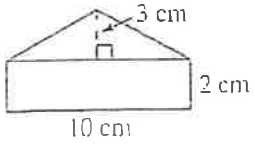
38. $\triangle DEF$ is congruent to $\triangle UVW$. The length of side DE is 6 cm , EF is 7.5 cm, and DF is 5 cm. What is the length of side VW?

39. True or False: When you rotate a figure about a point, its size remains the same.

40. Convert 420,000 mL to L.

41. The perimeter of a rectangle is 64 feet. If one side of the rectangle has a length of 20 feet, how long is the other side?

42. Find the area of the figure to the right.



43. Find the circumference and the area of a circle with diameter equal to 8.6 inches. Use 3.14 for π.

44. A rectangular prism measures 8 m by 4 m by 5 m. What is its volume?

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Chapters 1–12

45. Write an integer to represent 400 feet below sea level.

46. Solve. $(-1) + (-2)$

47. The product or quotient of two negative numbers results in what kind of number?

48. Is the point $(4, -6)$ on the graph of $y = x - 10$?

49. If you roll a number cube, what is the probability that you will roll a number greater than four?

50. A hat contains slips of paper with the letters A–Z printed on them. If you draw one at random, what is the probability that you will get a vowel?

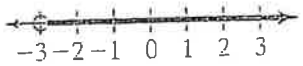
51. The probability that it will rain on a given day during the rainy season in Miami is 70%. If there are 140 days in the rainy season, on how many days should you expect it to rain?

52. You flip a coin twice, then roll a number cube. Find the probability of flipping two heads and rolling a 6.

53. Solve. $4m - 7 = 13$

54. Solve. $14 + \frac{k}{3} = 17$

55. Write the inequality that the graph below represents.



56. Solve. $12 + d > 112$

57. Triangle ABC is a right triangle. Find the missing side length.
$a = 12, b = ?, c = 15$

58. A triangle has sides of length 9, 12 and 14 cm. Is the triangle a right triangle?

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TEAM NAME:_____ TEAM MEMBER A:_____

Why Did Ogro Shop at Grass Roots Garden Supply?

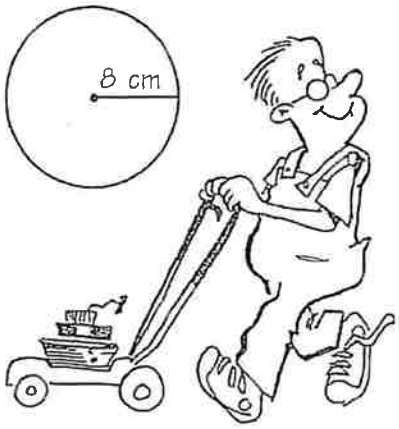
Do each exercise and find your answer in the answer column (some answers are rounded). Use 3.14 for π. Write the letter of the answer in the box containing the exercise number.

Answers

P. 38.29 m
G. 85 in.
T. 9.4 in.
M. 97.4 ft
G. 6.4 m
S. 16 cm
R. 1005 m
N. 15 ft
C. 79 in.
H. 40.19 m
O. 50.24 cm
K. 986 m
T. 94.2 ft
I. 29.52 in.
F. 52.74 cm
U. 692.5 ft^2
Y. 128.61 m^2
T. 113 mi^2
E. 200.96 cm^2
D. 949 $in.^2$
L. 134.71 m^2
E. 706.5 ft^2
V. 204.86 cm^2
W. 1017 $in.^2$
A. 69.36 $in.^2$
N. 122 mi^2

A. A circle has a radius of 8 cm. Find:

1. The diameter of the circle.
2. The circumference of the circle.
3. The area of the circle.

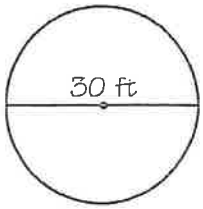


B. A circle has a radius of 4.7 in. Find:

4. The diameter of the circle.
5. The circumference of the circle.
6. The area of the circle.

C. A circle has a diameter of 30 ft. Find:

7. The radius of the circle.
8. The circumference of the circle.
9. The area of the circle.



D. A circle has a diameter of 12.8 m. Find:

10. The radius of the circle.
11. The circumference of the circle.
12. The area of the circle.

E. Solve. Round each answer to the nearest whole number.

13. The wheels on Ogro's bike have a diameter of 27 in. How far does the bike travel with each turn of the wheels?
14. A round crafts table has a diameter of 36 in. How much plastic laminate is needed to cover the top of the table?
15. A criminal has escaped in a train wreck. The police believe he could have traveled no more than 6 mi in any direction from the wreck. How many square miles must be searched?
16. Karina ran 8 laps around a circular track with a radius of 20 m. How far did she run?

11	3	14	6	1	8	16	12	5	7	10	15	2	13	9	4

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Why Will the World Never, Ever End?

Find each correct answer at the bottom of the page and cross out the letter above it (some answers are rounded). Use 3.14 for π.

1 Find the area of each circle.

a. 5 ft

b. 40 cm

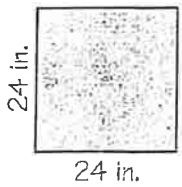
c. 2.3 m

d. 15 in.

2 Backpackers who build campfires are advised to clear a 10 ft-radius circle around the fire. How many square feet should be cleared?

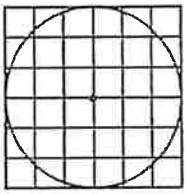
3 A lighthouse beacon can be seen 17 mi in all directions. To the nearest square mile, what is the area over which the beacon can be seen?

4 Mr. Gork has a square sheet of aluminum that measures 24 in. on each side. What is the area of the largest circular disk that he can cut from this sheet of aluminum?

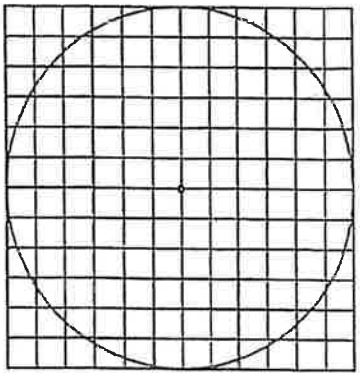


5 How many squares are inside each circle?

a.

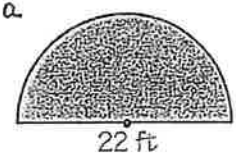


b.

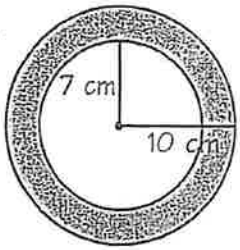


6 Find the area of each shaded region.

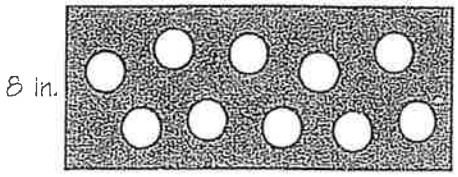
a.



b.



7 A crazy hole driller has drilled a bunch of 2 in.-diameter holes in a sheet of plywood, as shown below. How many square inches of plywood are left?



T	H	I	N	E	T	O	P	S	R	A	O	S	F	U	N	O	E	R	D
28.26	16.61 m^2	133.6 $in.^2$	907 mi^2	78.5 ft^2	109.34	189.97 ft^2	176.63 $in.^2$	1326 cm^2	194.17 ft^2	128.6 $in.^2$	17.41 m^2	452.16 $in.^2$	160.14 cm^2	883 mi^2	412.26 $in.^2$	113.04	1256 cm^2	314 ft^2	151.24 cm^2

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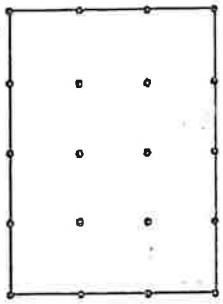
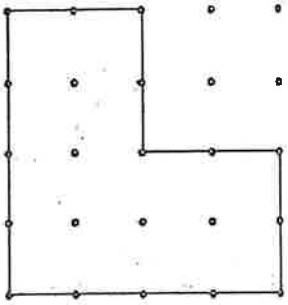
What Kind of Salad Do Snowmen Eat?

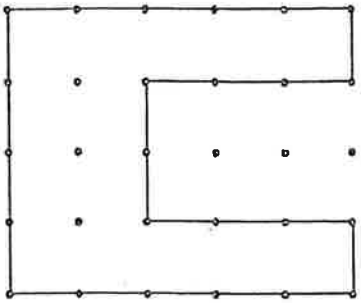
W	62 in.
O	160 yd
R	24 cm
U	12.5 in.
A	21 cm
E	32.4 cm
O	4.5 m
L	22 ft
L	14 cm
T	190 yd
U	19 in.
I	168 ft
O	170 yd
A	26ft
O	73.2 m
L	184 ft
U	45
E	22.4 cm
O	3.8 m
I	76 in.
T	16 cm
L	192 yd
U	48
I	34 in.
E	24 in.

Find each answer in the answer column and cross out the letter next to it.

A. *Find the perimeter of each figure on the 1-cm grid below.*

1. 

2. 

3. 

B. *Find the perimeter of each figure.*

4. Triangle with sides of 9.2 cm, 4.7 cm, and 8.5 cm

5. Regular hexagon with sides of 0.75 m

6. Square with sides of 18.3 m

7. Rhombus with sides of 40 yd

8. Rectangle with sides of 16 in. and 22 in.

9. Equilateral triangle with sides of 10.8 cm

10. Regular octagon with sides of 4.25 in.

11. Parallelogram with sides of 36 ft and 48 ft

C. *Solve.*

12. Farmer Fred's field is a rectangle 32 yd wide. The length of the field is twice the width. How much fencing does he need to go around it?

13. Ms. Snug designed a rectangular tablecloth 5 ft wide. Its length is 3 ft more than its width. How much lace edging does she need to go around the tablecloth?

14. The perimeter of a "STOP" sign is 100 in. What is the length of each side?

15. The frame around a square poster is 96 in. long. How long is each side of the poster?

16. A canoe race is held using three buoys to make a triangular course. The first leg is 80 yd long. The second leg is half as long as the first leg. The third leg is 10 yd less than the first leg. How long is the race?

17. A sail is shaped like an isosceles triangle. The short side is 9 ft long and is half the length of each longer side. The sail has holes for rope spaced 1 ft apart around its perimeter. How many holes are there?

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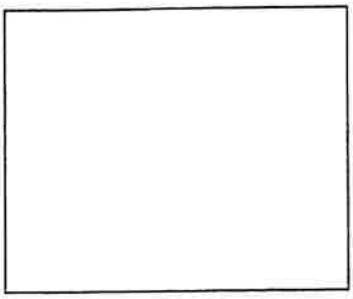
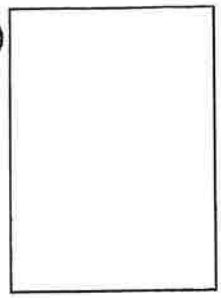
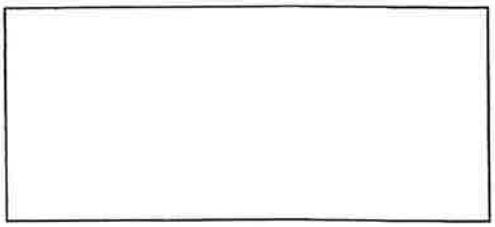
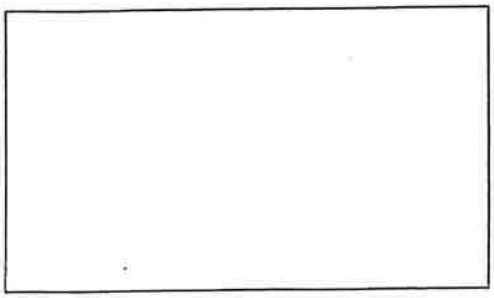
Why Was Elmo Fired by the M&M® Candy Company?

Measure the sides of each figure to the nearest centimeter. Then find both the perimeter (*P*) and the area (*A*). Write the letter for each exercise in the box above its answer at the bottom of the page.

1. 
   H P = **E** A =

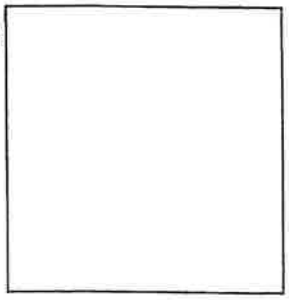
2. 
   W P = **T** A =

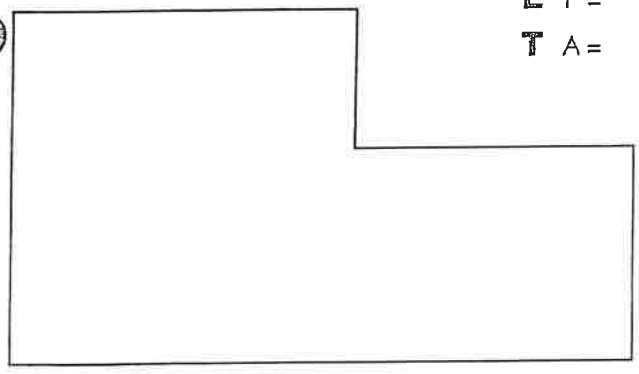
3. 
   E P = **L** A =

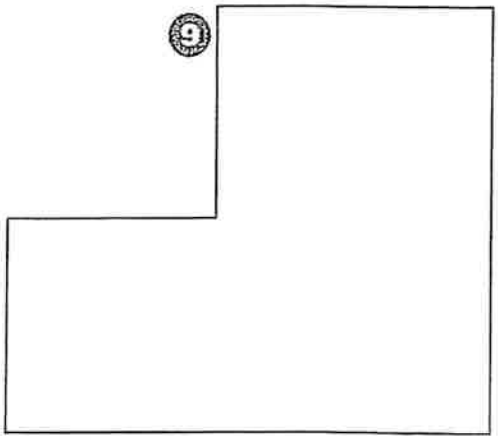
4. 
   O P = **S** A =

5.
   E P =
   T A =

6.
   H P =
   A A =

7. 
   T P = **L** A =

8. 
   U P = **H** A =

9. 
   R P = **W** A =

10 cm	20 cm	8cm	16 cm	18 cm	26 cm	12 cm	14 cm	32 cm	22 cm	28 cm	12 cm^2	36 cm^2	6 cm^2	21 cm^2	16 cm^2	25 cm^2	5 cm^2	37 cm^2	20 cm^2	10 cm^2	33 cm^2	28 cm^2

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Name _____ Class _____ Date _____

Beginning-of-Course Diagnostic Test

1. Multiply. 0.34×0.004

2. Multiply. 321×70

3. Subtract. $5\frac{3}{8} - 1\frac{5}{8}$

4. Divide. $3.2913 \div 9$

5. Estimate. $2\frac{9}{10} \cdot 2\frac{1}{7}$

6. Write a decimal for the given words.
   thirteen and one hundred
   thirteen ten-thousandths

7. Write the fraction in simplest form.
   $\frac{25}{70}$

8. Divide $1,341 \div 79$. Round to the nearest hundredth.

9. Draw an angle of 75°.

10. Multiply. 1.23×4

11. Write the mixed number as an improper fraction.
    $3\frac{2}{11}$

12. Write an integer for the situation.
    8 steps up

13. Use $>$ or $<$ to compare the numbers.
    13,254 13,524

14. Round to the place of the underlined digit.
    14.0472<u>1</u>

15. Divide. $2.2778 \div 1.627$

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GO ON

Name _____ Class _____ Date _____

16. Round to the place of the underlined digit.

    3,219

17. Add. 15.623 + 7.3953

18. Multiply. $4\frac{2}{5} \times 2\frac{1}{2}$

19. Write the decimals in order from least to greatest.

    5.013; 5.103; 5.301; 5.310; 5.031

20. Divide. 6.2379 ÷ 0.01

21. Divide. 1.92296 ÷ 0.52

22. Estimate. $5\frac{1}{4} \div 1\frac{1}{8}$

23. Divide. 101.52 ÷ 16

24. Add. $2\frac{2}{7} + 1\frac{6}{7}$

25. Divide. 3.41502 ÷ 3.46

26. Multiply. 32.5 × 7

27. Round to the place of the underlined digit.

    32,657

28. Draw an angle of 50°.

29. Divide. 0.85625 ÷ 0.685

30. Use >, <, or = to compare the decimals.

    1.5234 15.234

31. Multiply. 67 × 92

32. Write an integer for the situation.

    7 steps backward

33. Multiply. 3.625 × 0.001

GO ON

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Name _____ Class _____ Date _____

34. Multiply. $3\frac{1}{3} \times 1\frac{2}{3}$

35. Round to the place of the underlined digit.

4.<u>1</u>234

36. Write the numbers from least to greatest.

33,457; 34,674; 33,687; 34,328; 32,963

37. Subtract. 12.932 − 3.392

38. Divide. 0.0040761 ÷ 0.063

39. Write the decimal in words.

4.032

40. Multiply. 1.008 × 0.003

41. Find the missing number.

$\frac{11}{3} = \frac{\square}{39}$

42. Write the improper fraction as a mixed number.

$\frac{45}{7}$

43. Use >, <, or = to compare the decimals.

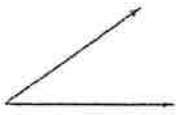
2.16 2.160

44. Estimate. $1\frac{7}{8} + 3\frac{1}{6}$

45. Divide. 3.41502 ÷ 3.46

46. Subtract. 32.589 − 15.0029

47. Measure the angle. Then classify it as *acute*, *right*, or *obtuse*.



48. Divide. 0.567 ÷ 10

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GO ON

Name _____ Class _____ Date _____

Beginning-of-Course Diagnostic Test (continued)

49. Divide. $671 \div 34$
Round to the nearest tenth.

50. Write the mixed number as an improper fraction.
$5\frac{5}{16}$

51. Round to the place of the underlined digit.
1,2<u>3</u>4,567

52. Divide. $57.18 \div 12$

53. Use $>$ or $<$ to compare the numbers.
1,206 121

54. Find the missing number.
$\frac{6}{7} = \frac{18}{\square}$

55. Divide. $\frac{8}{9} \div 1\frac{1}{3}$

56. Multiply. 34×458

57. Compare. Use $>$, $<$, or $=$ to compare the integers.
-12 12

58. Round to the place of the underlined digit.
8.00<u>1</u>56

59. Add. $3\frac{2}{9} + 3\frac{1}{9}$

60. Write a decimal for the given words.
fifty-four hundred-thousandths

61. Multiply. 0.89×0.6

62. Divide. $5.6334 \div 1.23$

63. Multiply. 0.25×0.07

END

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