

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. This 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
- 1 large container Lysol wipes for classroom use
- 6 large size book covers
- 2 pairs of headphones/earbuds for Chromebook (must be left in school)
You can purchase at the Dollar Store
- 6 single subject notebooks
- One package of blue or black pens (no other colors for handed in work)
- One package of red pens for making corrections-not for completed work
- One package of highlighters
- One package of pencils for math work
- 2 glue sticks
- Scissors
- Correction tape (no liquid white-out)
- A 1 ½ inch binder for Writing - 6th grade only (7 & 8th graders have one in the classroom)
- Package of tabbed dividers for Writing binder
- A 1-inch binder for Math (separate from Writing)
- 3 x 3-inch Post-it notes and ½ x 1 ¾ inch Post-it tabs (for literature)
- A box or zippered container to hold school supplies
- A box of colored pencils

**** Mandatory for 7th and 8th grade students**** Purchase a Texas Instruments (TI 84) calculator. Stores run sales periodically, so look for special pricing.

****Chromebooks ****The middle school students use chrome books each and every day. Having their own is strongly recommended.

Students should have their math and reading packets completed for the first day of school. In case of loss, you can reprint one from the school website.

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.



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 PASTERNAK

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

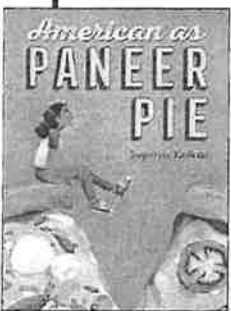
The morning after twelve-year-old Millie babysits for her neighbors, she learns that the infant she watched passed away

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?

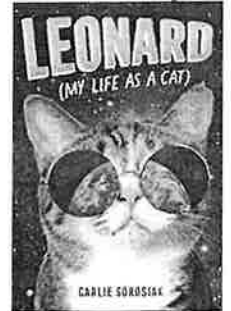


Get a Grip Vivvy Cohen! by Sarah Kapit

Vivvy 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 Vivvy and all-star VJ Capello; will Vivvy 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?



Scratch 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!

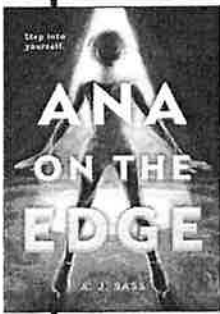


2024 Nutmeg Book Award Middle School Nominees Grades 7-8



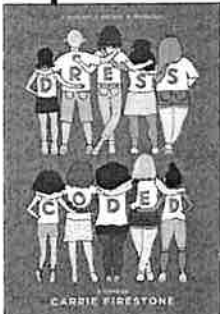
Amari and the Night Brothers by *B. B. Alston*

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.



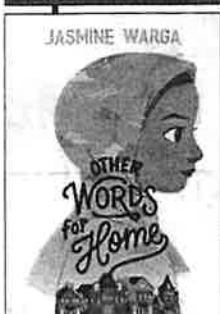
Dress Coded by *Carrie Firestone*

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.

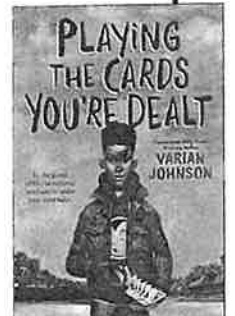


Other Words for Home by *Jasmine Warga*

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.



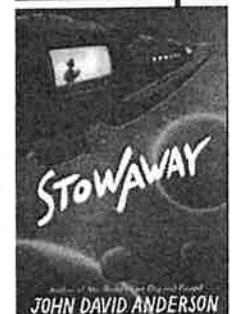
Spin by *Lamar Giles*

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.



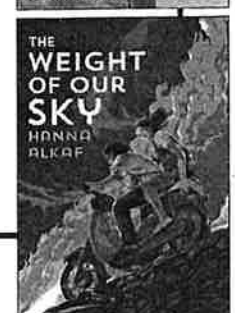
Swim Team by *Johnnie Christmas*

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-torn 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.





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

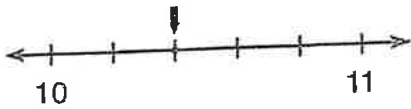
Middle School Teachers

Name _____

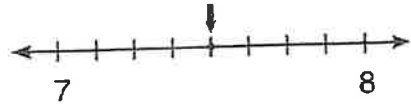
Show your work and explain your methods.

Write the mixed number for each point.

1.



2.



Find the sum or difference. Rename mixed numbers in simplest form when possible.

3. $\frac{2}{9} + \frac{3}{5} + \frac{7}{15}$

4. $3\frac{2}{3} + 7\frac{5}{9}$

5. $5\frac{1}{2}$
 $+ 6\frac{2}{7}$

6. $\frac{7}{8} - \frac{1}{6}$

7. $\frac{9}{10}$
 $- \frac{7}{8}$

8. $9\frac{1}{3}$
 $- 4\frac{3}{8}$

Find the product in simplest form.

9. $\frac{5}{6} \times \frac{2}{5}$

10. $\frac{5}{8} \times 10$

11. $16 \times \frac{3}{8}$

Name _____

Multiply using the distributive property.

12. $\frac{5}{6} \times 18 \frac{1}{12}$

13. $\frac{4}{5} \times 15 \frac{1}{8}$

Compute.

14. $n \times 569$ when $n = 468$

15. $705 \times n$ when $n = 398$

16. $82 \times 8 + n \div (8 - 4)$ when $n = 64$

17. $n + 6 \times 7 - 5$ when $n = 13$

Divide.

18. $\frac{4}{8} \div \frac{1}{6}$

19. $2 \frac{1}{5} \div \frac{4}{15}$

20. $9 \frac{1}{2} \div 3 \frac{2}{3}$

21. $14 \div 3 \frac{1}{5}$

22. $\frac{3}{4} \div 8$

23. $4 \frac{2}{7} \div 8$

WHAT DO Alexander the Great AND Smokey the Bear HAVE IN COMMON?

TO DECODE THE ANSWER TO THIS QUESTION, FOLLOW THESE DIRECTIONS:

FIRST, work any problem below and find your answer in the code.

SECOND, each time the answer appears in the code, you must write the letter of that problem above it.

KEEP DOING PROBLEMS UNTIL YOU HAVE DECODED THE ANSWER!

$$I = (9 \times 7) - (4 \times 5) = \bigcirc$$

$$M = (8 \times 8) - (6 \times 6) = \bigcirc$$

$$V = (7 \times 8) - (4 \times 6) = \bigcirc$$

$$O = (9 \times 7) - (7 \times 6) = \bigcirc$$

$$Y = (9 \times 9) - (5 \times 6) = \bigcirc$$

$$L = (6 \times 9) - (3 \times 4) = \bigcirc$$

$$S = (9 \times 5) - (8 \times 2) = \bigcirc$$

$$T = (6 \times 8) - (8 \times 3) = \bigcirc$$

$$H = (6 \times 7) - (5 \times 5) = \bigcirc$$

$$B = (9 \times 8) - (3 \times 3) = \bigcirc$$

$$N = (8 \times 9) - (4 \times 7) = \bigcirc$$

$$A = (8 \times 4) - (5 \times 2) = \bigcirc$$

$$D = (7 \times 9) - (7 \times 7) = \bigcirc$$

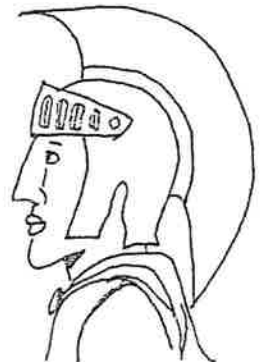
$$E = (8 \times 7) - (6 \times 3) = \bigcirc$$

CODED ANSWER

24 -- 17 -- 38 -- 51 -- 63 -- 21 -- 24 -- 17

17 -- 22 -- 32 -- 38 -- 24 -- 17 -- 38 -- 29 -- 22 -- 28 -- 38

28 -- 43 -- 14 -- 14 -- 42 -- 38 -- 44 -- 22 -- 28 -- 38



Name _____

Write each number as a product of prime numbers.
 Use exponents when appropriate.

24. 42

25. 32

26. 49

27. 20

Find the sum or difference.

28.
$$\begin{array}{r} 591.00 \\ + 277.67 \\ \hline \end{array}$$

29.
$$\begin{array}{r} \$15.00 \\ - 4.97 \\ \hline \end{array}$$

30.
$$\begin{array}{r} \$76.07 \\ 87.29 \\ 4.81 \\ + 15.03 \\ \hline \end{array}$$

31.
$$\begin{array}{r} 647.96 \\ - 439.26 \\ \hline \end{array}$$

Divide.

32. $57 \overline{) \$14.25}$

33. $14 \overline{) 47,208}$

34. $36 \overline{) 109,208}$

35. $42 \overline{) \$51.66}$

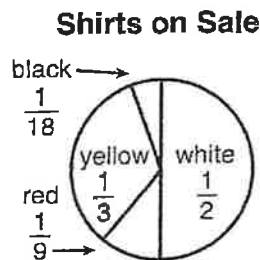
Name _____

Solve. Show your work and explain your thinking.

- 36.** A pizzeria offers 6 toppings: green pepper, mushrooms, pepperoni, tomato, onion, and sausage. Jim wants 3 toppings on his pizza. From how many different combinations can he choose?

- 37.** Eduardo has \$45.32 more than Louise. Together they have \$100. How much money does each person have?

- 38.** The circle graph shows the colors of shirts on sale. There are 90 shirts in all. How many shirts are of each color?



- 39.** At the end of the day, Lei had \$13.48. She spent \$3.45 for breakfast. She sold a used book for \$8.25. Then she spent \$11.95 on a CD. How much money did Lei have at the start of the day?

- 40.** Meg has $4\frac{1}{6}$ pounds of trail mix. How many bags of trail mix can she make if she puts $\frac{1}{6}$ pound of trail mix in each bag?



**Grade 5
End-of-Year Test**

Name _____

Materials: protractor and straightedge

Show your work and explain your methods.

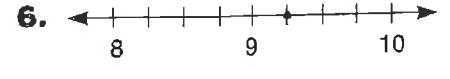
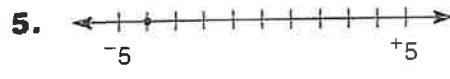
Add or subtract. Write the answer in simplest form.

1.
$$\begin{array}{r} \frac{2}{5} \\ \frac{1}{4} \\ + \frac{4}{15} \\ \hline \end{array}$$

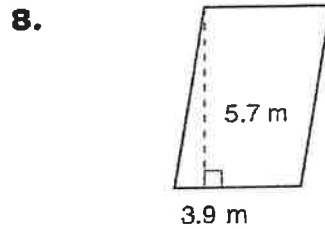
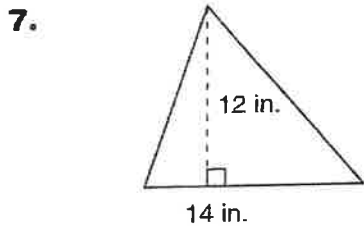
2.
$$\begin{array}{r} 21\frac{2}{9} \\ - 13\frac{5}{6} \\ \hline \end{array}$$

3. $3\frac{2}{3} + 5\frac{9}{10}$

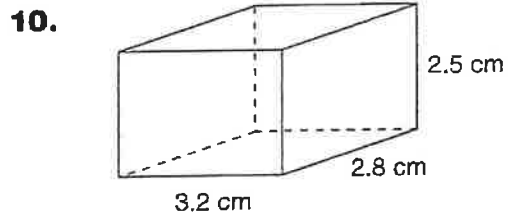
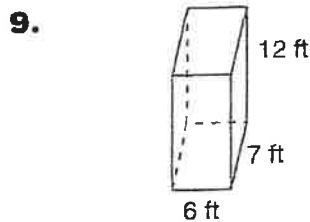
Name the decimal, mixed number, or integer that matches the point on the number line.



Find the area of each figure.



Find the surface area and volume of each rectangular prism.



Grade 5 End-of-Year Test

Name _____

Compare. Write $<$, $=$, or $>$.

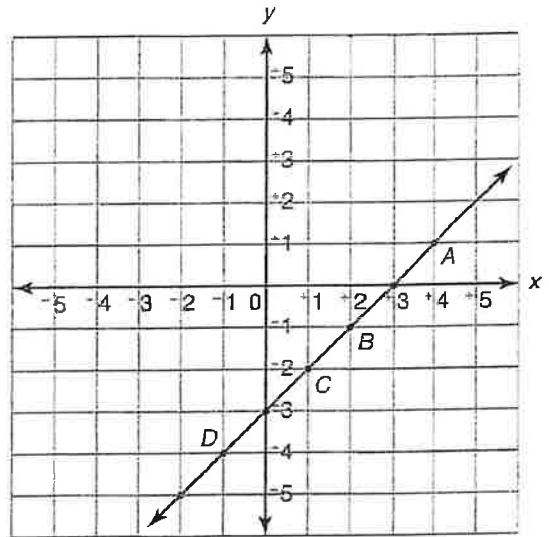
11. 140,000 mL $\underline{\quad ? \quad}$ 14L _____ 12. 176.3 m $\underline{\quad ? \quad}$ 1.763 km _____

Use the graph at the right for exercises 13–15.

13. Name the point for (1, -2). _____

14. When $x = 0$, what is the value of y ? _____

15. When $x = 2$, what is the value of y ? _____



Find the missing number in the proportion.

16. $\frac{3\frac{1}{4}}{n} = \frac{1}{4}$

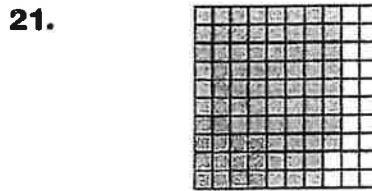
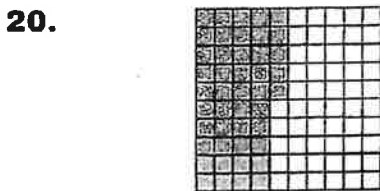
17. $\frac{1}{4} = \frac{n}{0.85}$

Evaluate the algebraic expression when $a = 62.2$.

18. $(90.2 - a) \times 3.7$

19. $2a + 124 \div 4$

Tell what fractional part of the grid is shaded. Then write the fraction as a percent.





What is the DIFFERENCE between

A Prize Fighter and a Man With a Cold?



THE ANSWER TO THIS IMPORTANT QUESTION IS WRITTEN IN CODE AT THE BOTTOM OF THE PAGE. TO DECODE:

First, work any problem below. Then find your answer in the code. Each time the answer appears in the code, write the letter of that problem above it.

KEEP DOING PROBLEMS UNTIL YOU HAVE DISCOVERED THE ANSWER TO THE QUESTION.

$$I = \frac{3}{8} + \frac{4}{8} = \quad N = \frac{9}{8} - \frac{6}{8} = \quad E = \frac{1}{16} + \frac{8}{16} = \quad X = \frac{15}{8} - \frac{2}{8} =$$

$$A = \frac{1}{6} + \frac{4}{6} = \quad C = \frac{7}{3} - \frac{2}{3} = \quad W = \frac{7}{10} + \frac{6}{10} = \quad O = \frac{7}{7} - \frac{1}{7} =$$

$$H = \frac{2}{9} + \frac{5}{9} = \quad M = \frac{11}{12} - \frac{6}{12} = \quad K = \frac{8}{25} + \frac{9}{25} = \quad S = \frac{21}{10} - \frac{4}{10} =$$

$$L = \frac{3}{7} + \frac{2}{7} = \quad R = \frac{11}{15} - \frac{4}{15} = \quad T = \frac{17}{12} + \frac{10}{12} = \quad B = \frac{20}{25} - \frac{11}{25} =$$

CODED ANSWER

$$\frac{27}{12} \frac{7}{9} \frac{9}{16} \frac{9}{25} \frac{6}{7} \frac{13}{8} \frac{9}{16} \frac{9}{15} \frac{7}{25} \frac{3}{8} \frac{6}{7} \frac{13}{10} \frac{17}{10} \frac{7}{9} \frac{7}{8} \frac{17}{10} \frac{9}{25} \frac{5}{7} \frac{6}{7} \frac{13}{10} \frac{17}{10} \frac{7}{9} \frac{7}{8} \frac{5}{7} \frac{9}{16}$$

$$\frac{27}{12} \frac{7}{9} \frac{9}{16} \frac{17}{10} \frac{7}{8} \frac{5}{3} \frac{17}{25} \frac{5}{12} \frac{6}{8} \frac{3}{25} \frac{9}{7} \frac{5}{6} \frac{3}{8} \frac{6}{7} \frac{13}{10} \frac{17}{10} \frac{7}{9} \frac{7}{8} \frac{17}{10} \frac{3}{8} \frac{6}{7} \frac{17}{10} \frac{9}{16}$$



Name _____

Compute. Use the order of operations.

22. $+7 (+3 + -11)$

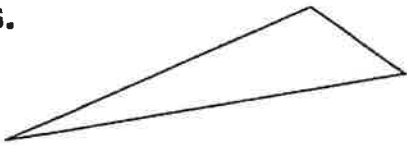
23. $\frac{(-64 + -23)}{-3}$

24. $-9 (-20 - +7)$

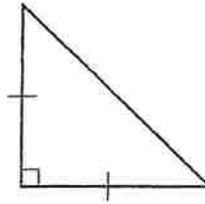
25. $\frac{(-7 + +2)(-4 + -12)}{-8}$

**Classify each triangle as *scalene*, *isosceles*, or *equilateral*.
Then classify each as *acute*, *right*, or *obtuse*.**

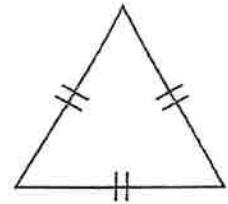
26.



27.



28.



Compare. Use $<$, $=$, $>$.

29. 25% of 80 $\underline{\quad ? \quad}$ 40% of 60

30. 15% of 300 $\underline{\quad ? \quad}$ 45% of 100

31. 30% of 200 $\underline{\quad ? \quad}$ 40% of 150

32. 75% of 300 $\underline{\quad ? \quad}$ 80% of 250

Name _____

Solve and check each equation.

33. $9.06 + x = 15.82$

34. $\frac{a}{243} = 3.9$

35. $6\frac{1}{4} = b - \frac{5}{8}$

36. $\frac{1}{3} \cdot \frac{3}{5} = \frac{3}{5} \cdot n$

Solve. Show your work and explain your thinking.

37. Cayden draws two polygons. The first polygon has 3 angles. The measure of the second angle is 3 times the measure of the first angle. The measure of the third angle is 5 times the measure of the first angle. The second polygon has 4 angles of equal measure. What polygons does he draw? Use a protractor and a straightedge to draw each figure. Label the angle measures.

38. Which is the best buy, a \$50 dress on sale for $\frac{1}{4}$ off, a \$50 dress on sale for 40% off, or a \$50 dress selling for 0.55 of the original price?

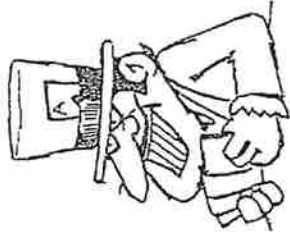
39. Mike and Melissa looked at the function table at the right. Mike said that the rule for the table was $y = +2x + -4$. Melissa said that the rule was $y = +2x - -4$. Who was correct, Mike or Melissa?

x	-3	-2	-1	0	+1
y	-2	0	+2	+4	+6

40. A recipe calls for $1\frac{3}{4}$ lb of fish to make seafood salad for 6 people. If Raul wants to make seafood salad for 2 people, how many pounds of fish should he use?



FIND A MATCH



DIRECTIONS:

Each of the two blocks below is divided into 18 boxes. Boxes in the top block contain problems and boxes in the bottom block contain the answers. Work any problem and find your answer in the bottom block. Then write the word from the problem box into the answer box. Keep doing problems and you will spell out a funny saying.

$\frac{4}{5} \times \frac{3}{8}$ NEVER	$\frac{3}{7} \times \frac{7}{6}$ THAT	$\frac{4}{5} \times \frac{5}{12}$ THE	$\frac{8}{5} \times \frac{15}{4}$ ON	$\frac{3}{14} \times \frac{7}{18}$ IS	$\frac{25}{12} \times \frac{3}{5}$ A
$\frac{6}{7} \times \frac{7}{9}$ THE	$\frac{12}{7} \times \frac{3}{8}$ ALWAYS	$\frac{11}{25} \times \frac{10}{11}$ REASON	$\frac{1}{18} \times \frac{12}{5}$ IS	$\frac{6}{5} \times \frac{15}{4}$ PLAY	$\frac{7}{12} \times \frac{20}{21}$ ON
$\frac{35}{6} \times \frac{36}{7}$ CARDS	$\frac{10}{9} \times \frac{27}{25}$ SOMEBODY	$\frac{4}{9} \times \frac{21}{10}$ STANDING	$\frac{12}{7} \times \frac{49}{20}$ PEOPLE	$\frac{20}{33} \times \frac{11}{70}$ DECK	$\frac{8}{15} \times \frac{25}{6}$ SHIP

$\frac{2}{3}$	$\frac{2}{5}$	$\frac{21}{5}$	$\frac{3}{10}$	$\frac{9}{2}$	30
6	$\frac{5}{4}$	$\frac{20}{9}$	$\frac{2}{15}$	$\frac{1}{2}$	$\frac{6}{5}$
$\frac{1}{12}$	$\frac{9}{14}$	$\frac{14}{15}$	$\frac{5}{9}$	$\frac{1}{3}$	$\frac{2}{21}$

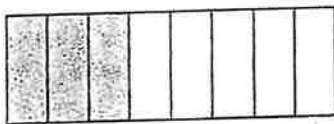
Screening Test

1. What is the value of the digit 4 in the following number?

14,032

- A ones
- B tens
- C hundreds
- D thousands

2. Which fraction is modeled by the shaded area below?



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

3. Which set of decimals is in order from least to greatest?

- A 4.23, 4.12, 4.1, 4.09
- B 4.23, 4.09, 4.1, 4.12
- C 4.09, 4.1, 4.12, 4.23
- D 4.1, 4.12, 4.23, 4.09

4. Of all of the puppies for sale, $\frac{7}{12}$ have white paws. Which statement *best* represents this fact?

- A None of the puppies for sale have white paws.
- B About $\frac{1}{4}$ of the puppies for sale have white paws.
- C About $\frac{1}{2}$ of the puppies for sale have white paws.
- D All of the puppies for sale have white paws.

5. Add.

$$584 + 487$$

- A 961
- B 1,017
- C 1,061
- D 1,071

6. Subtract.

$$\begin{array}{r} 1,985 \\ - 697 \\ \hline \end{array}$$

- A 1,288
- B 1,298
- C 1,312
- D 1,382

LINEUP

DIRECTIONS:

Figure out the **GREATEST COMMON FACTOR** for each pair of numbers on the left. Draw a straight line connecting each problem with its answer. Each line will cross a number and a letter. The number tells you where to put the letter in the line of boxes at the bottom of the page.

- GCF of 7 and 14 ■
- GCF of 10 and 15 ■
- GCF of 18 and 24 ■
- GCF of 12 and 60 ■
- GCF of 20 and 27 ■
- GCF of 30 and 70 ■
- GCF of 18 and 27 ■
- GCF of 50 and 75 ■
- GCF of 12 and 20 ■
- GCF of 11 and 22 ■
- GCF of 24 and 64 ■
- GCF of 6 and 8 ■
- GCF of 15 and 60 ■
- GCF of 16 and 48 ■
- GCF of 21 and 36 ■
- GCF of 50 and 100 ■
- GCF of 24 and 72 ■

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----

7. Add.

$$\frac{2}{9} + \frac{5}{9}$$

- A $\frac{7}{18}$
- B $\frac{5}{18}$
- C $\frac{7}{9}$
- D $\frac{11}{14}$

8. Harry sawed $4\frac{3}{4}$ inches off a $6\frac{1}{4}$ inch board.

How much board was left?

- A $1\frac{1}{4}$ inches
- B $1\frac{1}{2}$ inches
- C $2\frac{1}{4}$ inches
- D $2\frac{1}{2}$ inches

9. Ben had \$61.65. He earned \$31.50 for picking up walnuts from his neighbor's yard. How much money does Ben have now?

- A \$92.15
- B \$92.85
- C \$93.15
- D \$93.85

10. Jenna ran a 100-meter race in 14.76 seconds. Kylie ran the same race in 16.03 seconds. How much faster did Jenna run the race than Kylie?

- A 1.17 seconds
- B 1.27 seconds
- C 2.17 seconds
- D 2.27 seconds

11. Kim has 8 boxes filled with paperback books. Each box can hold 68 books. How many books does she have in all?

- A 76 books
- B 448 books
- C 544 books
- D 608 books

12. Divide.

$$339 \div 3$$

- A 103
- B 113
- C 123
- D 139

13. There are 246 seats in an auditorium. The auditorium is divided into 3 equal sections. How many seats are in each section?

- A 62 seats
- B 72 seats
- C 82 seats
- D 92 seats



HIDDEN MESSAGE

Work any problem below, and find the correct answer in the answer column. The number in front of the answer tells you where to put the letter of the problem in the row of boxes at the bottom of the page.

KEEP WORKING PROBLEMS UNTIL YOU HAVE DISCOVERED THE MESSAGE!

(N) $(6 \times 34) + (2 \times 24) =$

(1) 278

(R) $(7 \times 25) + (8 \times 9) =$

(2) 523

(U) $(7 \times 9) + (76 \times 4) =$

(3) 367

(I) $(5 \times 26) + (6 \times 54) =$

(4) 329

(R) $(9 \times 91) + (4 \times 38) =$

(5) 247

(E) $(4 \times 83) + (3 \times 28) =$

(6) 416

(A) $(0 \times 45) + (7 \times 56) =$

(7) 392

(O) $(1 \times 82) + (63 \times 7) =$

(8) 966

(A) $(47 \times 7) + (93 \times 0) =$

(9) 454

(N) $(38 \times 9) + (98 \times 7) =$

(10) 1028

(Y) $(67 \times 2) + (18 \times 8) =$

(11) 252

(W) $(75 \times 1) + (99 \times 9) =$

(12) 928

(E) $(56 \times 4) + (88 \times 8) =$

(13) 971

1	2	3	4	5	6	7	8	9	10	11	12	13
---	---	---	---	---	---	---	---	---	----	----	----	----



14. A gardener planted 8 rose bushes, 18 lilies, 10 irises and 24 petunias around the perimeter of a swimming pool. What is the ratio of the number of rose bushes to the number of petunias in the garden?

- A 1 to 3
- B 4 to 9
- C 5 to 12
- D 3 to 4

15. Which number is *not* an odd number?

- A 253
- B 325
- C 352
- D 523

16. Which number is a factor of 412?

- A 32
- B 91
- C 103
- D 113

17. Which statement does *not* form an equation?

- A $54 \times 1 = 54$
- B $54 + 0 = 54$
- C $54 \times 0 = 54$
- D $54 + 1 = 55$

18. Which of the following is *best* measured in terms of capacity?

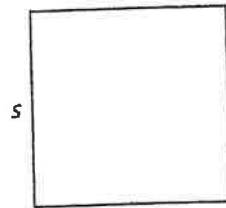
- A an eyelash
- B juice in a glass
- C a trip to the store
- D a math book on a table

19. James and June both swim 2 miles a day. Which measuring tool should be used to determine the swimmer with the fastest time?

- A a scale
- B a clock
- C a meter stick
- D a thermometer

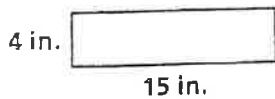
20. The perimeter P of a square may be found using the formula $P = 4s$, where s is the length of each side. The area of a square may be found using the formula $A = s^2$.

A square has an area of 64 square feet. What is the perimeter of the square?



- A 16 feet
- B 32 feet
- C 64 feet
- D 128 feet

21. Use the formula $A = l \times w$ to find the area of the rectangle below.



- A 38 square inches
 B 60 square inches
 C 76 square inches
 D 108 square inches
22. A poster lists the average masses of common objects. Which mass would most likely be given in kilograms?

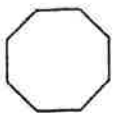
- A a paperclip
 B a dragonfly
 C a young child
 D a newborn kitten

23. A cereal box is a real-world example of which solid shape?

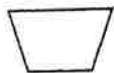
- A cube
 B sphere
 C rectangle
 D rectangular prism

24. Which geometric figure below is a pentagon?

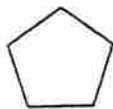
A



C



B



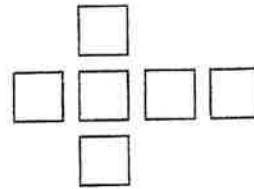
D



25. Which statement about triangles is true?

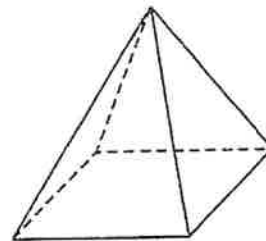
- A The angles in a triangle must equal 180° .
 B A triangle must have at least 1 obtuse angle.
 C The sides in a right triangle are always the same length.
 D The angles in an isosceles triangle are equal.

26. Which solid shape can be formed by the following plane shapes?



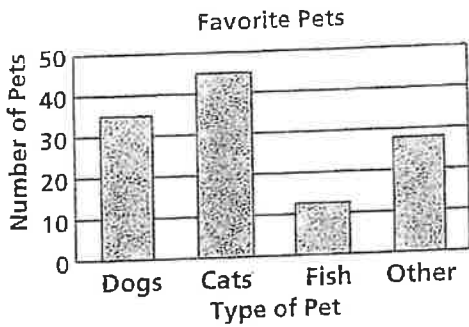
- A cube
 B square pyramid
 C triangular prism
 D rectangular pyramid

27. Which two-dimensional shape(s) are used to make the faces of the solid figure below?



- A rectangles
 B triangles
 C rectangles and squares
 D squares and triangles

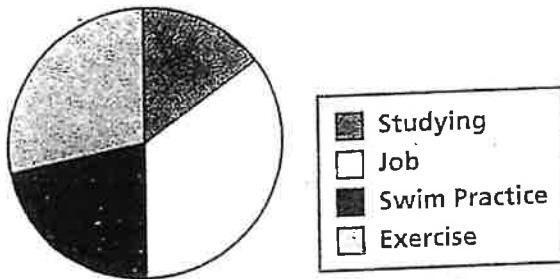
28. What type of data display is shown below?



- A table
- B bar graph
- C line graph
- D frequency table

29. On which activity did Mark spend the most time?

Time Spent on After-School Activities



- A Job
- B Exercise
- C Studying
- D Swim Practice

30. Which of the following events is certain to occur?

- A The sun will set in the west.
- B A coin is tossed and it lands on tails.
- C It will rain every time you have a party.
- D Your best friend scores the winning touchdown.

31. There are 20 marbles in a box: 6 blue marbles, 4 red marbles, 7 green marbles, and 3 black marbles. If you reach into the box and choose one marble, which color of marble are you most likely to pick?

- A red
- B blue
- C black
- D green

32. What is the next number in the pattern?

3, 6, 9, 12, ...

- A 14
- B 15
- C 18
- D 21

33. Solve.

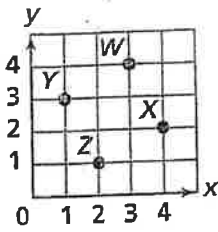
$$x + 16 = 42$$

- A $x = 26$
- B $x = 36$
- C $x = 58$
- D $x = 68$

34. An accountant drives 50 miles a day to work. Which expression represents the total number of miles he drives after x days?

- A $50x$
- B $50 \div x$
- C $x - 50$
- D $x + 50x$

35. Which point represents the ordered pair (1, 3)?



- A W
B X
C Y
D Z
36. Samuel has been playing the piano 5 years longer than Marisa. Marisa has been playing for y years. Which equation can be used to find the number of years Marisa has been playing the piano if Samuel has been playing for 13 years?
- A $13 = \frac{y}{5}$
B $13 = 5y$
C $13 = y + 5$
D $13 = y - 5$

