

**Epiphany Cathedral Catholic School
Summer Work for 2022-2023 School Year**

6th Grade Middle School Math

1. Please complete the attached math packet. If you are struggling to understand a problem, use Khan Academy (www.khanacademy.org) to help you.
 - a. You may NOT use a calculator.
 - b. You MUST show all your work for getting your answers. No work = no credit.
2. Practice your multiplication facts frequently. Some will need more practice than others. I can not express how important it is to know your math facts, especially as we get into higher math classes. You can use XtraMath (www.xtramath.org), another online resource, or make your own flash cards.

All summer math work will be due Monday, August 15, 2023.

If you have any questions regarding the summer math, you may reach out to Mrs. Filbrandt at filbrandt@ecstigers.com.

Name _____

1. There are 928 possible words for a spelling bee. If Levi studies 40 words per day, how long will he take to study all of the words?

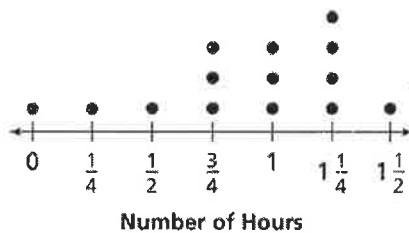
- (A) 18 days
- (B) 21 days
- (C) 23 days
- (D) 24 days

2. Ken went to a county fair and spent \$5 on admission, \$6.50 on games, and \$7.21 on food. If he had \$30 before he went to the fair, how much money does he have left?

- (A) \$18.71
- (B) \$12.19
- (C) \$11.29
- (D) \$10.89

3. Jo kept track of how much TV she watched each day for two weeks. How many hours in all did she spend watching TV?

Daily TV Watching



- (A) $1\frac{1}{2}$ hours
- (B) $5\frac{1}{4}$ hours
- (C) $12\frac{1}{2}$ hours
- (D) $13\frac{1}{2}$ hours

4. The Johnsons sold corn at a local farmer's market. They sold $56\frac{1}{2}$ pounds of corn to 15 customers. How many total ounces of corn did they sell?

- (A) 904 ounces
- (B) 896 ounces
- (C) 568 ounces
- (D) 560 ounces

5. The length of an alligator in a zoo is $14\frac{5}{8}$ feet. The Everglades National Park lists the longest alligator ever recorded in Florida at $17\frac{5}{12}$ feet. Which is the difference in their lengths?

- (A) $2\frac{3}{4}$ feet
- (B) $2\frac{19}{24}$ feet
- (C) $3\frac{5}{8}$ feet
- (D) $3\frac{5}{6}$ feet

6. The students at Woodward Elementary voted for a school mascot. The falcon won with $\frac{5}{8}$ of the votes. If 536 students voted for a mascot, how many students voted for the falcon?

- (A) 467
- (B) 402
- (C) 335
- (D) 275

Name _____

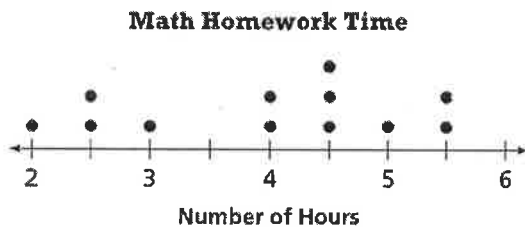
7. Round 503.782 to the nearest tenth.

- (A) 500
- (B) 503.7
- (C) 503.78
- (D) 503.8

8. Ernie walked $1\frac{1}{4}$ miles from his cabin to a park, then $1\frac{1}{2}$ miles around the park, and then back to his cabin. How many miles did he walk?

- (A) $4\frac{1}{4}$ miles
- (B) 4 miles
- (C) $2\frac{3}{4}$ miles
- (D) $\frac{1}{4}$ mile

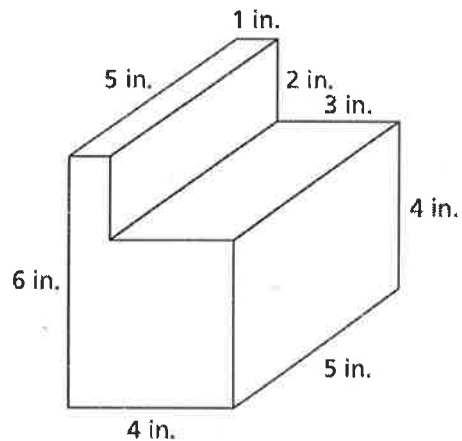
9. The line plot shows the number of hours students spent doing their math homework last week.



How many students spent $4\frac{1}{2}$ hours or more on their math homework?

- (A) 3
- (B) 5
- (C) 6
- (D) 12

10. A cell phone manufacturer designed the new packaging shown below that will hold a cell phone, accessories, and an owner's manual. Which is the volume of the new packaging?



- (A) 130 in.^3
- (B) 120 in.^3
- (C) 110 in.^3
- (D) 90 in.^3

11. One quarter has a mass of 5.67 grams. Which is the mass of 50 quarters?

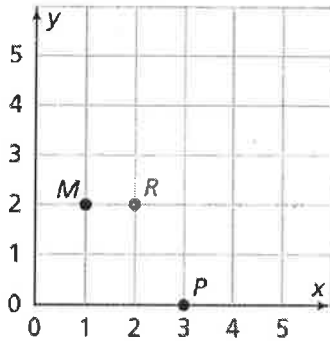
- (A) 23.35 grams
- (B) 28.35 grams
- (C) 253.5 grams
- (D) 283.5 grams

12. Jeremy has 3 pounds of ground beef to make hamburgers. How many $\frac{1}{3}$ -pound hamburgers can he make?

- (A) 12
- (B) 9
- (C) 6
- (D) 1

Name _____

13. The map below shows the locations of the houses of Maria, Reese, and Paul. Which are the coordinates of Maria's house at point *M*?



- (A) (1, 2)
 (B) (2, 1)
 (C) (2, 2)
 (D) (1, 3)
14. Find the product.
 437×16
 (A) 6,792
 (B) 6,952
 (C) 6,963
 (D) 6,992
15. Ted brought a cooler containing 7.5 liters of water to a picnic. If 500 milliliters of water are served to each person, how many people can get water before the cooler is empty?
 (A) 150
 (B) 130
 (C) 15
 (D) 13

16. The femur, or thigh bone, of an average human is 480 millimeters long. Which is this length in meters?
 (A) 0.48 meter (C) 48 meters
 (B) 4.8 meters (D) 480,000 meters

17. Which expression represents the following calculation?

Add the product of 7 and 5 to the quotient of 288 and 18.

- (A) $288 \div (7 \times 5) + 18$
 (B) $(7 \times 18) + (288 \times 5)$
 (C) $(288 - 18) \div (7 + 5)$
 (D) $(288 \div 18) + (7 \times 5)$
18. Erin earns \$7.50 for each hour she works. Rita earns \$9.00 for each hour she works. The table shows the amounts that Erin and Rita earn for working 1 to 6 hours.

Hours	Erin	Rita
1	\$7.50	\$9.00
2	\$15.00	\$18.00
3	\$22.50	\$27.00
4	\$30.00	\$36.00
5	\$37.50	\$45.00
6	\$45.00	\$54.00

How will their total earnings compare for a 40-hour workweek?

- (A) Rita will earn \$60 more than Erin.
 (B) Erin will earn \$60 more than Rita.
 (C) Rita will earn \$1,000 more than Erin.
 (D) Erin will earn \$100 more than Rita.

Name _____

19. Jasmine bought a game system that cost \$299 before tax. The sales tax was 0.07 times the price. What was the total cost of the game system including the sales tax?

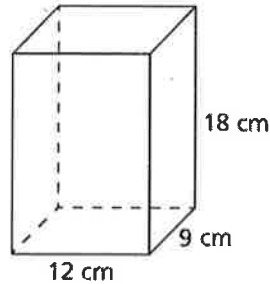
(A) \$303.95
(B) \$308.96
(C) \$319.93
(D) \$321.99

20. The quotient below is shown without the decimal point. Use number sense to place the decimal point correctly.

$$340.1 \div 9.5 = 358$$

- (A) Place the decimal point before 3.
(B) Place the decimal point between 3 and 5.
(C) Place the decimal point between 5 and 8.
(D) Place the decimal point after 8.
21. Andy has \$261.81 left in his bank account after buying a tennis racquet and a can of tennis balls. The racquet cost \$76.58 and the tennis balls cost \$13.61. How much did Andy have in his bank account before buying the tennis racquet and tennis balls?
- (A) \$633.60
(B) \$352.00
(C) \$70.40
(D) \$18.40

22. Which is the volume of the box shown below?



- (A) 39 cubic centimeters
(B) 270 cubic centimeters
(C) 972 cubic centimeters
(D) 1,944 cubic centimeters
23. Which statement is true?
- (A) Every rhombus has 4 equal angles.
(B) Every trapezoid has 2 pairs of opposite parallel sides.
(C) Every square has 4 equal sides and 4 right angles.
(D) Every parallelogram has 4 equal sides.
24. Which expression has a value of 8?
- (A) $21 - 3 \times 5$
(B) $(28 \div 4) + (10 \times 2)$
(C) $(16 \div 4) + 3 \times 2$
(D) $4 \times 5 - 6 \times 2$

Name _____

25. Nina's total trip to and from work is 14 miles. If she works 243 days this year, how many miles will she drive to and from work?

(A) 3,402 miles
(B) 3,292 miles
(C) 1,215 miles
(D) 1,105 miles

26. Fatima has $\frac{1}{2}$ gallon of milk. She wants to pour all the milk into 6 glasses. What fraction of a gallon should she pour into each glass?

(A) $\frac{1}{12}$ gallon
(B) $\frac{1}{8}$ gallon
(C) $\frac{1}{4}$ gallon
(D) $\frac{1}{2}$ gallon

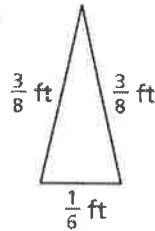
27. A team of four runners competed in the 100-meter relay race. The times for each leg of the race are shown in the table.

Runner	Time (s)
Jared	12.36
Zachary	12.2
Danny	12.03
Jackson	11.85

Which was the team's total time for the race?

(A) 48.26 seconds
(B) 48.44 seconds
(C) 48.71 seconds
(D) 48.74 seconds

28. Which is the perimeter of the triangle below?



(A) $\frac{7}{22}$ foot
(B) $\frac{13}{24}$ foot
(C) $\frac{22}{24}$ foot
(D) $\frac{28}{24}$ feet

29. A flower shop ordered 1,176 flowers to make bouquets. Each bouquet will have 12 flowers. How many bouquets can the flower shop make?

(A) 89
(B) 98
(C) 99
(D) 102

30. The heights of four students are 148.5 centimeters, 146.9 centimeters, 148.2 centimeters, and 148.75 centimeters. Kylie is the tallest. Elly is taller than Jessica, but shorter than Elizabeth. Jessica is the shortest. What is Elizabeth's height?

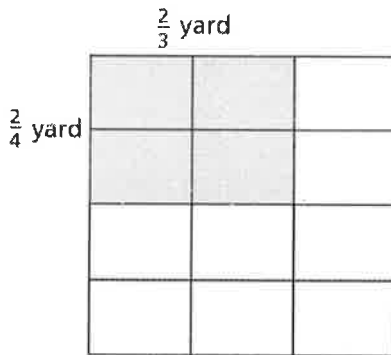
(A) 148.75 centimeters
(B) 148.5 centimeters
(C) 148.2 centimeters
(D) 146.9 centimeters

Name _____

31. Rosa paid \$107.40 for 12 audio books that were all the same price. Which is the best estimate of the cost of each audio book?

- (A) \$7
- (B) \$9
- (C) \$11
- (D) \$13

32. Use the model below to find the area of the shaded region.



- (A) $\frac{4}{7}$ square yard
- (B) $\frac{1}{2}$ square yard
- (C) $\frac{1}{3}$ square yard
- (D) $\frac{1}{4}$ square yard

33. Which statement is **NOT** true?

- (A) Every square is a rhombus.
- (B) Every square is a rectangle.
- (C) Every rhombus is a parallelogram.
- (D) Every trapezoid is a parallelogram.

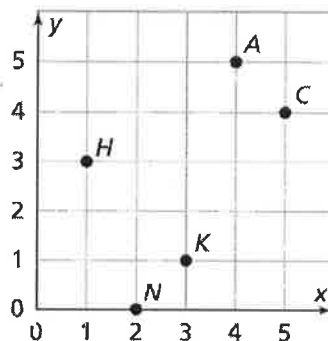
34. Samir can rent a moving truck from Company A for \$135 plus \$0.50 per mile or from Company B for \$125 plus \$0.70 per mile. Which statement is true?

- (A) Renting from Company A will always be cheaper.
- (B) Renting from Company B will always be cheaper.
- (C) Renting from both companies will cost the same if Samir drives the truck 50 miles.
- (D) Renting from Company B will be cheaper if Samir drives the truck 100 miles.

35. Annie borrowed \$354 from her parents to buy a tablet. She plans to pay the money back in 12 equal payments. How much will each payment be?

- (A) \$28.50
- (B) \$29.50
- (C) \$30.25
- (D) \$31.50

36. Name the ordered pair for point *H*.



- (A) (3, 1)
- (B) (1, 3)
- (C) (0, 3)
- (D) (3, 0)