

Upper Academy

6th Grade Math Summer 2025 Home Learning

We strongly recommend your child works on the Summer Home Learning assignment. It will help your child to get a general idea of the content to be covered throughout the next school year.

Directions to students: Please complete the math problems on the following pages the best you can and show and turn in your work on a separate sheet of paper.

If some questions are not familiar to you, use Khan Academy, IXL videos related to each topic, or "Mathantics" videos.

Mathematics Summer Learning (show work on separate paper)

Select the best answer.

 Average yearly heat and electric costs are listed in the table. About how much more is the average cost in Brazil than in the U.S.?

Country	Average Cost	
Argentina	\$2,137	
Brazil	\$2,702	
India	\$2,360	
U.S.	\$2,376	

- A \$200
- C \$400
- B \$300
- D \$600
- 2. What is the value of 54?
 - F 20
- H 625
- G 45

- I 715
- 3. What is the value of

$$4 \cdot 5 - 2 \cdot 6 + 4$$
?

- A 12
- C 36
- B 18
- D 72
- 4. Which expression shows how the Distributive Property can be used to multiply 8 × 29?
 - F 8(20) + 8(9)
- H 29(8)
- $G 8 + 20 \bullet 8 + 9$
- 18(20) + 9
- 5. Which algebraic expression means "the sum of 3 times a number and 5"?
 - A 3x + 5
- C 5+x
- B 5x + 3
- D 2x+5
- 6. Which is a solution to x 9 = 16?
 - F x = 7
- H x = 12
- G x = 10
- 1 x = 25

- 7. Mitch works 4 afternoons per week at a local drugstore. He earns \$32 per day. How many weeks will Mitch have to work in order to earn \$896?
 - A 5 weeks
- C 9 weeks
- B 7 weeks
- D 28 weeks
- 8. What is the solution to the

equation
$$\frac{x}{3} = 18$$
?

- F x = 5
- H x = 9
- G x = 6
- 1 x = 54
- 9. Clarissa works at the deli on Saturdays. Her mom came in and ordered 3 different salads. She ordered 5.2 pounds of potato salad, 5.25 pounds of coleslaw, and 5.3 pounds of pasta salad. Which shows the decimals in order from least to greatest?
 - A 5.2, 5.25, 5.3
 - B 5.3, 5.25, 5.2
 - C 5.25, 5.2, 5.3
 - D 5.25, 5.3, 5.2
- 10. What is the value of 7.36 s when s = 2.6?
 - F s = 4.76
- H s = 7.1
- G s = 5.76
- 1 s = 7.346

Mathematics Summer Learning (show work on separate paper)

- 11. A used car loan of \$2,262.24 is to be paid off in 18 equal monthly payments. How much is each payment?
 - A \$100.24
- C \$120.24
- B \$118.52
- D \$125.68
- 12. What is the solution for the

equation
$$\frac{y}{8.2} = 3.5$$
?

- F y = -4.7 H y = 11.7
- G y = 2.34 I y = 28.7
- 13. What is the GCF of 45, 90, and 150?
 - A 3

C 6

B 5

- D 15
- 14. Four friends cut their hair for a charity. Danielle cut off $8\frac{1}{2}$ inches. Marcia
 - cut off $8\frac{5}{9}$ inches. Judi cut off
 - $8\frac{3}{4}$ inches. Luisa cut off $8\frac{5}{6}$ inches.

Who cut off the most hair?

- F Danielle
- H Judi
- G Marcia
- I Luisa
- 15. What is the value of $\frac{7}{8} x$ for $x = \frac{3}{8}$ written in simplest form?

В

- 16. Delroy has just started jogging. He jogs for $\frac{5}{9}$ mile, walks for a while, and then jogs an additional $\frac{7}{16}$ mile. How far does he jog?

 - F $\frac{1}{2}$ mile H $1\frac{1}{16}$ miles

 - G $\frac{3}{4}$ mile I $1\frac{1}{2}$ miles
- 17. At summer camp the cook bought 150 pounds of potatoes. The campers made campfire pocket stew and used $82\frac{1}{9}$ pounds of potatoes. How many pounds were left?

 - A $60\frac{5}{8}$ pounds C $68\frac{1}{8}$ pounds

 - B $67\frac{1}{8}$ pounds D $72\frac{7}{8}$ pounds
- 18. Roberto's tuition was \$4800. He was able to obtain a loan for $\frac{2}{3}$ of the tuition. How much was the loan?
 - F \$1,600
- H \$3,200
- G \$2,400
- I \$9,600
- 19. A t-shirt requires $\frac{3}{4}$ yard of material. How many t-shirts can be made from 18 yards of material?
 - A 6

- C 24
- B 13
- D 36
- 20. What is the median of this data set?

 - 5 4 2 8 6 1 3 7
 - G 6
- H 6.4 1 7

Mathematics Summer Learning (show work on separate paper)

21. The members of a book club are 33, 33, 38, 35, 57, 37, and 40 years old. To the nearest tenth, what is the mean of this data set with and without the outlier?

A 36, 38.8

C 39, 36

B 39, 30.9

D 45.5, 30.9

22. What is the range of the following data set?

<u>Stem</u>	Leaves	Leaves			
0					
1	0 2 7 9				
2	2 6				
3	5 5 9				
F 0		Н	29		
G 10		1	39		

23. A salt dough recipe calls for 4 cups of salt and 12 cups of flour. If the recipe is reduced, how many cups of flour should be used with 1 cup of salt?

A 1 cup

C 3 cups

B 2 cups

D 4 cups

24. The distance between two towns on a map measures 4 inches. The actual distance is 180 miles. What is the scale of the map?

F 1 inch:15 miles

G 1 inch:25 miles

H 1 inch:35 miles

I 1 inch:45 miles

25. Which set of numbers is in order from greatest to least?

A $\frac{3}{8}$; 30%; 0.4

B 15%; $\frac{1}{6}$; 0.14

C 60%; 0.58; $\frac{4}{7}$

D 0.45; $\frac{3}{5}$; 40%

26. Regina received a score of 39 out of 52 on a quiz. What percent did she earn?

F 39%

H 82%

G 75%

I 133%

27. A watch cost \$75.99. If the sales tax rate is 6.25%, what is the amount of sales tax?

A \$0.48

C \$4.75

B \$2.19

D \$474.94

28. Fallon wants to sew a new trim around the edge of a blanket. The blanket is 72 inches wide and 76 inches long. How many inches of edging will Fallon need?

F 148 inches

H 304 inches

G 296 inches

I 5,472 inches

29. A circle has a diameter of 16 inches. What is the circumference of the circle rounded to the nearest hundredth? Use 3.14 for π .

A 50.24 inches

B 100.48 inches

C 200.96 inches

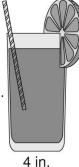
D 803.84 inches

GRADE | Mathematics Summer Learning (show work on separate paper)

- 30. The Truman's rectangular vegetable garden has a length of 12 feet and a width of 4 feet. What is the area of their vegetable garden?
 - F 16 square feet
 - G 32 square feet
 - H 36 square feet
 - I 48 square feet
- 31. A circular flowerbed has a diameter of 27 feet. What is the area of the flowerbed? Use 3.14 for π and round to the nearest hundredth.
 - A 84.78 square feet
 - B 452.16 square feet
 - C 572.27 square feet
 - D 2,289.06 square feet
- 32. What is the volume of the glass?

Use 3.14 for π .

- F 32 cubic inches
- G 50.24 cubic inches 8 in.
- H 100.48 cubic inches
- I 401.92 cubic inches



33. Which is an equation for the function that gives the values in the table?

х	2	3	4
у	10	13	16

A
$$y = 2x - 1$$

B
$$y = 3x + 4$$

C
$$y = 6x - 2$$

D
$$y = 5x + 3$$

- 34. Which ordered pair is a solution of the equation y = 3x + 1?
 - F (1, 2)
- H (4, 13)
- G (3, 9)
- I (5, 15)
- 35. What is the solution to the equation 3x 6 = 9?
 - A x=1
- C x = 9
- B x = 5
- D x = 45
- 36. Which value is part of the solution to the inequality $6t \ge 36$?
 - $\mathbf{F} t = \mathbf{0}$
- H t = 4
- G t = 2
- 1 t = 6
- 37. What is |-13|?
 - A –13
- C 1

B 0

- D 13
- 38. Which set of integers is written in order from greatest to least?
 - F -3, -2, 2, 4
 - $G \ -4, -8, -12, -14$
 - H -2, -4, -1, -7
 - I 4, -3, -2, -8
- 39. What is the value of -n (-9) for n = 9?
 - A -18
- C 9

B 0

- D 18
- 40. What is the solution of the equation $z \div (-4) = 16$?
 - F z = -64
- H z=4
- G z = -4
- I z = 6