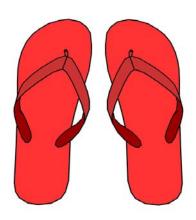
ALGEBRA Summer Math Packet



Students:

Enclosed are six lessons to do this summer.

Please do all work on the **answer sheets**, not on the problem sheets.

Return all papers.

These papers will count as your first **Test Grade** for Algebra.

Enjoy your summer break. See you soon!

Much love,

Mrs. Schlanz



1.
$$-19 + (-26) = ?$$

2.
$$|-29| = ?$$

3.
$$\sqrt{2,025} = ?$$

4.
$$63 + (-46) = ?$$

$$5. \qquad 3\frac{1}{3} + 4\frac{1}{5} = ?$$

6. Solve for *a*.
$$a-12 = 56$$

7. You are building a fence 13 feet long. On Monday, you build $4\frac{1}{3}$ feet of the fence, and, on Tuesday, $5\frac{3}{4}$ feet. How much of the fence do you still need to build?

8.
$$0.06 \times 0.05 = ?$$

9.
$$\frac{81}{-9} = ?$$

10. Simplify.
$$6a+4b+8+3b-4a+9$$

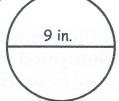
11.
$$-22 - (-16) = ?$$

12. What is the value of x?
$$\frac{x}{5} = 15$$

13.
$$-6(-5) = ?$$

- 14. Write the ratio *six to seven* in two other ways.
- 15. Find the circumference of the circle.

16. Evaluate
$$\frac{3ab}{2}$$
 when $a = 2$ and $b = 3$.



17. Change $\frac{4}{5}$ to a decimal and to a percent.

18.
$$30 \div 5 \cdot 6 + 14 - 10 \div 2 = ?$$

- 19. Find the area of a square if a side measures 12 cm.
- 20. Write an algebraic expression for the difference of a number and 10.

- 1. How many sides does a pentagon have?
- 2. $96 \times 57 = ?$
- 3. $50 \div 5 \cdot 9 45 + 5 = ?$
- 4. Solve for b. b + 42 = -86
- 436,816 + 598,444 = ?
- 6. What is the value of 3xy + 2x when x = 2 and y = 3?
- 7. Find the value of a. 2a = 36
- 8. Make a factor tree for 45.
- 9. Round 56,477,812 to the nearest hundred thousand.
- 10. -55 (-39) = ?
- 11. Combine like terms. 6x+12+4y+7x+15
- 12. 36.24 + 19.8 = ?
- 13. What is the value of x? $\frac{x}{12} = 9$

14.
$$8-3\frac{4}{5}=?$$

- 15. -6(-2)(3) = ?
- 16. Find the LCM of $6x^2yz^4$ and $15xy^3z^2$.
- 17. 64 + (-26) = ?
- 18. After taxes, Lamar brings home \$500 per week in his pay. He would like to save enough money to put a \$2,000 down payment on a new motorcycle. If Lamar saves 50% of his weekly salary toward the down payment on a new motorcycle, how many weeks will it take him to reach his goal?
- 19. Write an algebraic phrase to represent a number divided by 8.
- 20. What value of x makes the two fractions equivalent? $\frac{9}{5} = \frac{108}{x}$

1.
$$93 - (-18) = ?$$

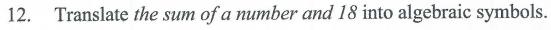
- 2. How long are the sides of a square if its area is 100 ft^2 ?
- 3. $\sqrt{2,601} = ?$
- 4. Write 35% as a decimal and as a reduced fraction.
- 5. Solve for a. $\frac{a}{4} = 16$

7.
$$-33 + (-47) = ?$$

- 8. Find the value of a. 5a = 75
- 9. It is 4:20 now. What time will it be in 6 hours and 15 minutes?

10.
$$\frac{9}{12} \bigcirc \frac{7}{11}$$

11.
$$3,080 \div 4 = ?$$



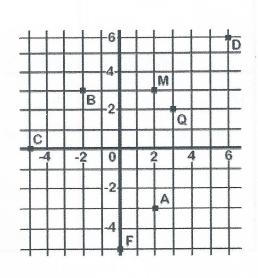
13.
$$\frac{-54}{9} = ?$$

- 14. Mary is 3 times as old as her brother, Josh. If Josh is 6 years old, how old will Mary be on her next birthday?
- 15. Round 46,877,641 to the nearest thousand.

16.
$$\frac{3}{5} \times \frac{15}{18} = ?$$

- 17. Put these integers in order from least to greatest. -16, 0, 2, -24, 16
- 18. Find the GCF of $18a^2bc^3$ and $24abc^2$.
- 19. Find the median of 17, 24, 98, 67 and 42.
- 20. Give the coordinates for points F, A, and D.

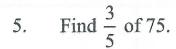


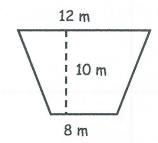


- 1. On his way from Toledo to Cincinnati, Mr. Smith drove at an average rate of 65 miles per hour. If his trip took 5 hours, how far did he travel?
- 2. Find the area of a circle with a radius of 4 inches. (Hint: $A = \pi r^2$)
- 3. -8(-4)(2) = ?
- 4. A triangle with 2 congruent sides is a(n) _____ triangle.
- 5. -88 (-49) = ?
- 6. 0.6 0.2475 = ?
- 7. $2\frac{7}{10} 1\frac{3}{5} = ?$
- 8. Solve for a. $\frac{a}{7} = 21$
- 9. Solve the proportion for x. $\frac{x}{5} = \frac{24}{60}$
- 10. How many quarts are in 6 gallons?
- 11. -16 + (-14) + 11 = ?
- 12. $36 \div 6 \cdot 2 + 10 5 = ?$
- 13. List the first 5 prime numbers.
- 14. Find the value of n. n-15=35
- 15. The ratio of lions to giraffes living in the grasslands was 13 to 2. If there were 52 lions, how many giraffes lived in the grasslands?
- 16. Write $\frac{13}{20}$ as a decimal and as a percent.
- 17. Solve for *x*. 4x = 64
- 18. 365,812 + 132,999 = ?
- 19. What number is 60% of 90?
- 20. Simplify by combining like terms. 5a+7+3b+8a+10+14a

1.
$$-55 - (-18) = ?$$

- 2. Solve this equation to find the value of x. 3x-7=14
- $3. \qquad 7\frac{1}{2} + 3\frac{2}{5} = ?$
- 4. What is the area of the trapezoid?





6. Solve for x.
$$\frac{x}{4} = 15$$

7. Give the name of each shape. a) b) b)

8.
$$0.003 \times 0.07 = ?$$

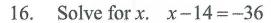
- 9. Write 65% as a decimal and as a reduced fraction.
- 10. How many hamburgers can Melinda make from 5 pounds of hamburger if she uses $\frac{1}{4}$ pound of meat per hamburger?

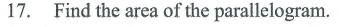
11.
$$36 \div 6 \cdot 4 - 4 + 10 \div 5 = ?$$

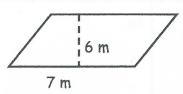
12.
$$\sqrt{9,801} = ?$$

- 13. 25% of 80 is what number?
- 14. Find the GCF of $16x^2yz^3$ and $15xy^3z^2$.

15. If
$$a = 2$$
 and $b = 3$, evaluate $\frac{3ab}{b} + 6$.







18.
$$\frac{-42}{-6} = ?$$

- 19. How many feet are in 3 miles?
- 20. Solve for *x*. 7x = 105

1. Write $6 \times 6 \times 6 \times 6 \times 6 \times 6$ using a base and an exponent.

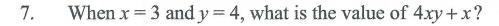
2.
$$41 + (-23) = ?$$

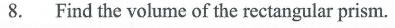
3.
$$\frac{-21}{3} = ?$$

4.
$$\sqrt{784} = ?$$

5. Solve for x.
$$\frac{5}{8} = \frac{x}{120}$$

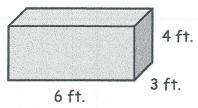
6. Solve for *x*.
$$3x = 48$$





9. Simplify.
$$\frac{8a^2bc^3}{12ab^2c^5}$$

10.
$$|-91| = ?$$



11. What value of a makes the equation true?
$$3a+12=6a-24$$

12. Solve for b.
$$b+16=-52$$

13. Simplify by combining like terms.
$$4a+2b+8+5a+6b-6$$

14.
$$11 - 7\frac{3}{7} = ?$$

16.
$$10 \cdot 5 \div 2 + 5 - 3 = ?$$

17. Write
$$\frac{12}{18}$$
 in simplest form.

18. Mr. Giles has 6 horses; each horse eats about 85 pounds of feed per year. How many pounds of feed will 6 horses eat in $1\frac{1}{2}$ years?

19.
$$63 - (-19) = ?$$

20. Solve for a.
$$a-17 = -52$$

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