

Directions: Circle the problems you complete and write the solutions in the space provided.

If you want you can use IXL instead of using this sheet to do summer math. Go to IXL.com and use your sign-in from school.

1. A quadrilateral has three angles measuring  $60^\circ$ ,  $45^\circ$ , and  $100^\circ$ . What is the measure of the fourth angle?

2. Evaluate the expression for  $x = 5.6$  and  $y = 9.3$ .  $3x + 4y =$  \_\_\_\_\_

3. Debbie has 42 marbles and Chris has 24 marbles. How many marbles should Debbie give to Chris so that they have an equal number of marbles?

4. A pet shop sells birds. For every 8 birds sold, 6 are parrots and 2 are canaries. If the shop sells 56 birds, how many are parrots?

5. Find two different three digit numbers that have 2, 5, and 7 as factors.

3. Three pies require 2 dozen apples. How many apples would four pies require?

4. Write an expression to represent the following: the product of 7 and a number decreased by 11. Then, evaluate the expression for  $n = 15$

5. You received \$50 for your birthday. If you purchased three online games costing 12.99 each, how much money would you have left?

6. The ratio of computers to calculators is 5:9. Find the number of computers if there are 108 calculators.

7. Place parentheses in the expression below to make it a true statement.

$$5 + 5 \div 5 \times 5 = 0$$

8. The area of a rectangle is 32.5 cm. Its length is 5 cm. What is its width?

9. Which is greater: inches in a mile or seconds in a day? Show how you know.

10. Multiply:  $0.52 \times 79.8$

11. A turkey needs to cook for 15 minutes per pound. If you buy a 24 pound turkey, how long will it take to cook?

12. Three hot dogs cost \$8.55. How much is one hot dog?

13. Use a visual fraction model to show the following quotient:  $\frac{2}{3} \div \frac{3}{4}$

14. The sum of two odd numbers is 28. The product of the two numbers is 115. What are the two numbers?

15. Multiply  $4\frac{5}{7} \times 6\frac{3}{7}$

16. What is the perimeter and area of a rectangle with a length of 14 cm and a width that is 5 more than twice the length?

17. Write a story problem that could be solved using  $3x + 2 = 11$

18. Kenya is wrapping a shoe box that has dimensions of 12 in. by 6 in. by 4 in. How much wrapping paper will he need?

19. The PTO purchased 6 gallons of ice cream for a party. If they served  $\frac{2}{3}$  cup to each student, how many students will be served ice cream?

20. Find one multiple less than 100 and one multiple greater than 100 that has 3, 11, and 22 as factors.

21. Which car is traveling faster? Car 1: 300 miles in 5 hours. Car 2: 250 miles in 4 hours. Explain how you know.

22. Represent the following fractions as a decimal and percent.  $\frac{7}{20}$  and  $\frac{5}{9}$

23. Bobby is 5 years younger than Carl. Carl is 3 years older than Dave. If Dave is 15 years old, how old is Bobby?

24. Evaluate the following expressions for  $x = 7$ .

$$2x - 13 \quad x + \frac{21}{x} \quad \frac{5+x}{2}$$

25. Find two mixed numbers or fractions that have a quotient of  $3\frac{1}{5}$

26. Solve for the value of  $x$ .  $x - \frac{3}{5} = 4.71$

27. The mean of six numbers is 6.8. Find two missing numbers that would make this true. 5.4 3.2 ?  
8.9 ? 12.4

28. The first two terms in a sequence are 13 and 21. Each subsequent term is the mean of the two previous terms. What is the fifth term in the sequence?

29. A ball rolls 30.45 feet in 15 seconds. How far does it roll per second?

30. A basketball has a diameter of 24 cm. What is the volume of the basketball?

31. Suppose 48 out of every 120 people like baseball and of the people who like baseball 3 out of 5 play baseball. If you ask 500 people, how many would you expect to play baseball?

32. The speed of a dog is 150% the speed of a squirrel. The speed of a cheetah is 310% the speed of a dog. If the squirrel can run 12 mph, how fast can the cheetah run? Round your answer to the nearest tenth.

33. The name Genesis is written repetitively like this: genesisgenesisgenesis.....  
What is the 1,000th letter?

34. Three numbers have a sum of 100. The difference between the two larger numbers is 12. The difference between the two smaller numbers is 2. What are the three numbers?

35. Find the volume of a cube with side length of  $\frac{2}{3}$  cm.

36. 1 kg of potatoes cost \$10.70. How many kilograms of potatoes can you get with \$278.20 ?

37. A car can travel 253 miles on 11.5 gallons of gasoline. How much gasoline will it need to go 382.8 miles?

38. Multiply:  $3.6 \times 8.07$

39. Divide:  $3.6 \times 8.07$

40. 6 is what percentage of 51?