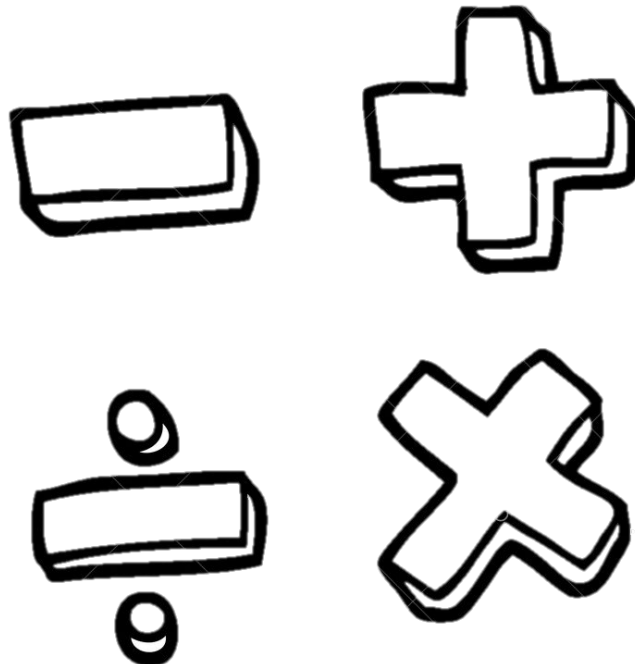


Name: \_\_\_\_\_

**6<sup>TH</sup> GRADE  
SUMMER  
MATH  
PACKET**



**Solve. Show all your work!**

**Use rounding to estimate. Then find the actual sum or difference.**

1. 
$$\begin{array}{r} 3.076 \\ 8.653 \\ + 9.047 \\ \hline \end{array}$$

2. 
$$\begin{array}{r} 37.45 \\ - 8.346 \\ \hline \end{array}$$

3.  $6.794 - 2.305$

4.  $0.4 + 0.79 + 2.05$

**Use a factor tree to find the prime factorization of each number**

5. 46

6. 36

7. 40

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Find the quotient or product.**

8.  $n \times 4.38$  when  $n = 4$

9.  $n \div 4$  when  $n = 1.22$

10.  $0.19 \div n$  when  $n = 5$

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

11. 
$$\begin{array}{r} 86.9 \\ \times 4.3 \\ \hline \end{array}$$

12. 
$$\begin{array}{r} 43.51 \\ \times 705 \\ \hline \end{array}$$

13.  $7 \times 0.86$

14.  $28 \times 2.352$

15.  $\$14.25 \div 57$

16.  $47,208 \div 14$

17.  $109,208 \div 36$

18.  $\$51.66 \div 42$

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

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

20.  $3\frac{2}{3} + 7\frac{5}{9} =$  \_\_\_\_\_

21.  $5\frac{1}{2} + 6\frac{2}{7} =$  \_\_\_\_\_

22.  $\frac{7}{8} - \frac{1}{6} =$  \_\_\_\_\_

23.  $\frac{9}{10} - \frac{7}{8} =$  \_\_\_\_\_

24.  $9\frac{1}{3} - 4\frac{3}{8} =$  \_\_\_\_\_

**Find the product in simplest form.**

25.  $\frac{5}{6} \times \frac{2}{5} =$  \_\_\_\_\_

26.  $\frac{5}{8} \times 10 =$  \_\_\_\_\_

27.  $16 \times \frac{3}{8} =$  \_\_\_\_\_

28.  $18\frac{1}{12} \times \frac{3}{8} =$  \_\_\_\_\_

**Divide. Write your answer in simplest form.**

29.  $\frac{4}{8} \div \frac{1}{6} =$  \_\_\_\_\_

30.  $2\frac{1}{5} \div \frac{4}{15} =$  \_\_\_\_\_

31.  $\frac{3}{4} \div 8 =$  \_\_\_\_\_

32.  $4\frac{2}{7} \div 8 =$  \_\_\_\_\_

**Solve.**

33.  $n \times 569$  when  $n = 468$  \_\_\_\_\_

34.  $705 \times n$  when  $n = 398$  \_\_\_\_\_

35.  $82 \times 8 + 64 \div (8 - 4)$  \_\_\_\_\_

36.  $13 + 6 \times 7 - 5$  \_\_\_\_\_

37. At the end of the day, Lei has \$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?

38. Each car carrier weighs 4.7 lb. Pedro ships 8 cat carriers to the rescue center. If he pays \$1.25 per pound for shipping, how much does it cost to ship all 8 cat carriers?

39. What was the hardest part of this packet for you?

40. What was the easiest part of this packet for you?

41. What are you most excited to learn about in math in 6th grade?

I can't wait to have a great year! See you in September!! :)

Name \_\_\_\_\_

**Materials: protractor**

**Show your work and explain your methods.**

**Use rounding to estimate. Then find the sum or difference.**

**1.**

$$\begin{array}{r} 3.072 \\ 8.653 \\ + 9.047 \\ \hline \end{array}$$

**2.**

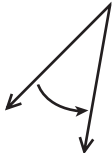
$$\begin{array}{r} 37.45 \\ - 8.346 \\ \hline \end{array}$$

**3.**  $6.794 - 2.305$

**4.**  $0.4 + 0.79 + 2.05$

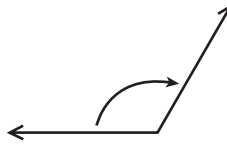
**Find the measure of each angle, and write whether it is *acute*, *right*, *obtuse*, or *straight*.**

**5.**



\_\_\_\_\_

**6.**



\_\_\_\_\_

**7.**



\_\_\_\_\_

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

**8.** 46

\_\_\_\_\_

**9.** 36

\_\_\_\_\_

**10.** 40

\_\_\_\_\_

**Find the quotient or product.**

**11.**  $n \times 4.38$  when  $n = 4$

\_\_\_\_\_

**12.**  $n \div 4$  when  $n = 1.22$

\_\_\_\_\_

**13.**  $0.19 \div n$  when  $n = 5$

\_\_\_\_\_

Name \_\_\_\_\_

**Find the product.**

**14.** 
$$\begin{array}{r} 86.9 \\ \times 4.3 \\ \hline \end{array}$$

**15.** 
$$\begin{array}{r} 43.51 \\ \times 705 \\ \hline \end{array}$$

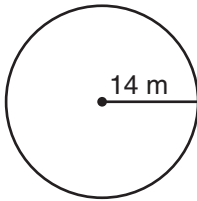
**16.**  $7 \times 0.86$

**17.**  $28 \times 2.352$

**Use the formula to find the circumference of each circle.**

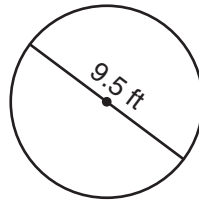
Use  $\pi \approx 3.14$  or  $\frac{22}{7}$ .

**18.**



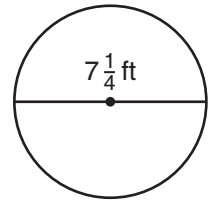
\_\_\_\_\_

**19.**



\_\_\_\_\_

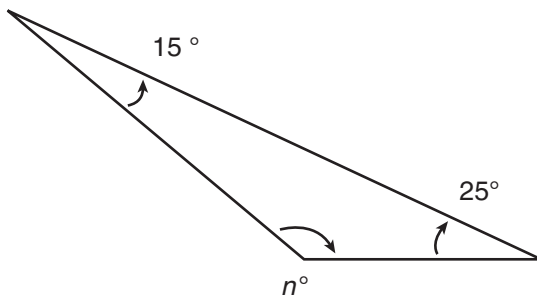
**20.**



\_\_\_\_\_

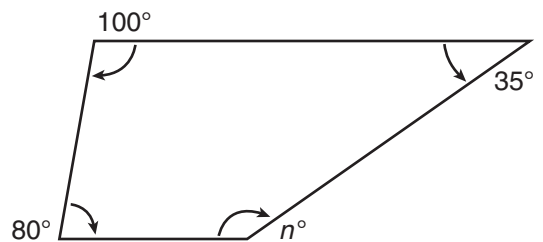
**Find the measure of the missing angle.**

**21.**



$n =$  \_\_\_\_\_

**22.**



$n =$  \_\_\_\_\_

Name \_\_\_\_\_

Use a protractor to draw each angle.

23.  $25^\circ$

24.  $165^\circ$

25.  $95^\circ$

Find the difference.

26. 
$$\begin{array}{r} 7\frac{1}{4} \\ - 1\frac{3}{5} \\ \hline \end{array}$$

27.  $12\frac{6}{7} - 3\frac{1}{4}$

28.  $\frac{5}{6} - \frac{5}{9}$

Solve. Show your work and explain your thinking.

29. Each cat carrier weighs 4.7 lb. Pedro ships 8 cat carriers to the rescue center. If he pays \$1.25 per pound for shipping, how much does it cost to ship all 8 cat carriers?

\_\_\_\_\_

30. Sofia has  $3\frac{1}{4}$  dozen bracelets left at the end of the craft fair. She sold 2 dozen bracelets in the afternoon. She made  $\frac{3}{4}$  dozen bracelets before that. She sold  $1\frac{1}{2}$  dozen bracelets in the morning. How many bracelets did Sofia have to begin with?

\_\_\_\_\_

