

Rising 6th grade Summer Math Packet

Add:

1. $7,469 + 8,374$

2. $19,335 + 24,281$

3. $40,742 + 22,597$

4. $102,369 + 60,320$

Subtract, check your answer by adding:

5. $4,002 - 3,765$

6. $58,005 - 1,098$

Write the word form and tell the value of the underlined digit.

7. $\underline{9},000,009$

8. $2\underline{5},678$

9. $\underline{1}7,874,000,000$

10. $2,\underline{6}47,000$

Find:

1. $\frac{5}{6} + \frac{3}{4}$

2. $\frac{2}{5} + \frac{3}{10}$

3. $\frac{3}{4} - \frac{5}{12}$

4. $\frac{7}{8} - \frac{2}{3}$

Find each product:

5.
$$\begin{array}{r} 44 \\ \times 23 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 89 \\ \times 11 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 67 \\ \times 57 \\ \hline \end{array}$$

Compare. Write >, <, or =.

8. 9,900 9,099

9. 300,300 303,000

Find each product.

10. $\frac{3}{5} \times \frac{1}{4}$

11. $\frac{6}{7} \times \frac{1}{2}$

12. $\frac{4}{9} \times \frac{2}{3}$

Find each product:

1.
$$\begin{array}{r} 451 \\ \times 10 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 892 \\ \times 18 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 655 \\ \times 98 \\ \hline \end{array}$$

Compare. Write >, <, or =.

4. 89,128 90,000

5. 22,009 22,090

Write two fractions that are equivalent to each of the following.

6. $\frac{2}{3}$

7. $\frac{5}{7}$

Write the word form and tell the value of each underlined digit.

8. 8.59

9. 7.003

10. 6.837

Problem Solving:

11. How many more species of fish are there than mammals when there are 19,000 mammals and 4,000 fish?

Find each product.

1. $\frac{3}{4}$ of 16

2. $24 \times \frac{1}{8}$

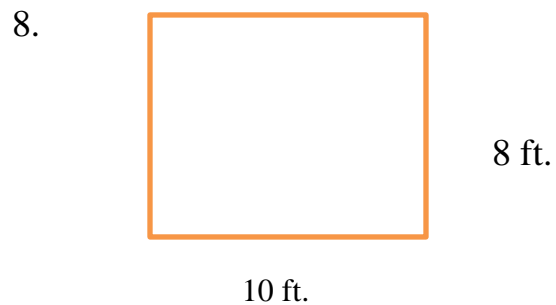
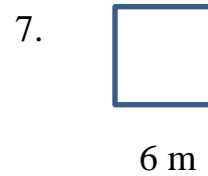
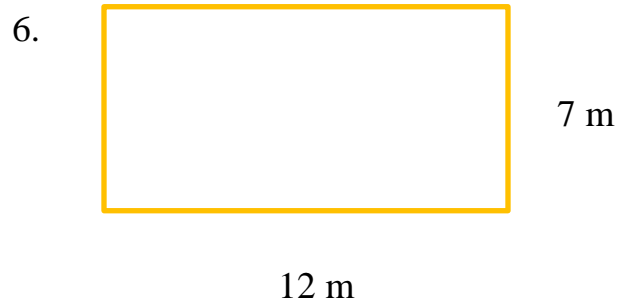
3. $\frac{4}{7}$ of 28

Order the numbers from least to greatest.

4. $\frac{2}{3}, \frac{1}{4}, \frac{2}{5}, \frac{1}{3}$

5. $\frac{2}{7}, \frac{1}{10}, \frac{1}{3}, \frac{5}{6}$

Find the perimeter.



Divide:

1. $4,328 \div 93$

2. $678 \div 27$

3. $980 \div 45$

Write two fractions that are equivalent to each of the following.

4. $\frac{1}{2}$

5. $\frac{3}{4}$

Compare. Write $>$, $<$, or $=$.

6. 0.584 0.58

7. 5.2 5.20

Solve:

8. Nate has a \$5 bill and a \$10 bill. He spends \$2.50 for a smoothie and \$2 for a muffin. How much money does he have left?

9. Paige takes riding lessons 5 days per week for 2 hours each day. Maggie takes guitar lessons twice a week for $2\frac{1}{2}$ hours each day, and piano lessons three days per week for 1 hour each day. Which girl spends more hours on lessons? How many more hours?

10. Lonny planted 15 roses, 12 geraniums, and 6 daisies. His dog digs up 4 roses and 2 daisies. How many flowers are left planted?

Divide:

1. $12 \overline{) 1,455}$

2. $23 \overline{) 3,189}$

3. $27 \overline{) 2,264}$

Vocabulary:

Choose the best term from the box.

denominator	numerator
least common multiple	least common denominator

4. The number above the fraction bar is the _____.

5. The smallest common multiple of two numbers is called the _____
_____.

6. The number below the fraction bar is the _____.

7. The smallest common multiple of two denominators is called the _____
_____.

Find each sum or difference. Simplify, if possible.

1. $\frac{5}{8} + \frac{1}{4}$

2. $\frac{11}{12} - \frac{1}{4}$

3. $\frac{4}{5} + \frac{1}{2}$

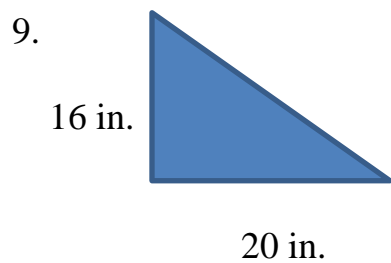
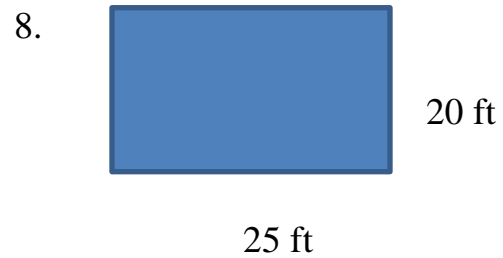
Find each sum or difference.

4.
$$\begin{array}{r} 9371 \\ + 6,059 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 14,506 \\ - 8,759 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 178,312 \\ - 140,987 \\ \hline \end{array}$$

Find each area.



Round each number to the place of the underlined digit

1. 75.8

2. 0.758

3. 427,841

Compare. Write $>$, $<$, or $=$.

4. 0.07 0.08

5. 5.643 5.675

Solve:

6. A lecture hall has 479 desk chairs and 216 folding chairs. How many seats are there in all?

7. Brad lives 10 times as far away from Dallas as Jennie. If Jennie lives 44 miles from Dallas, how many miles from Dallas does Brad live?

8. Dan helped his dad clean the garage and attic over the weekend. They took eight 15-minute breaks. How many minutes did they spend on breaks?

Find the distance between each pair of integers on a number line.

9. -3 and +5

11. -2 and +4

12. -7 and -1

Find each product. Simplify if possible.

1. $\frac{1}{8} \times 6$

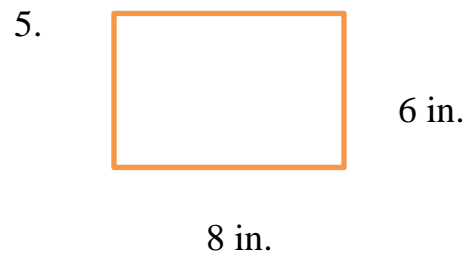
2. $7 \times \frac{1}{2}$

3. $\frac{3}{5} \times \frac{3}{10}$

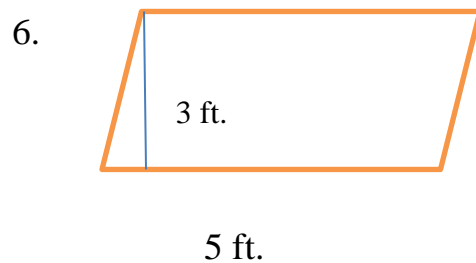
Use a formula to find each area.



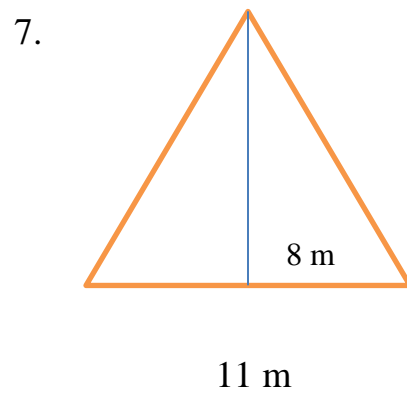
Use $A = s \times s$.



Use $A = l \times w$

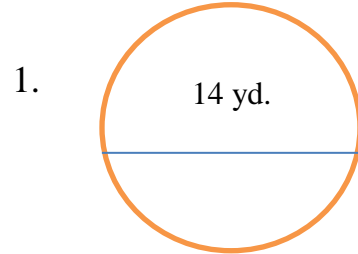


Use $A = b \times h$



Use $A = \frac{1}{2} \times b \times h$

Find the circumference of the circle.



Use $C = \pi \times d$

$$\pi = 3.14$$

Evaluate each expression for $n = 5$ and $n = 2$.

2. $\frac{40}{n}$

3. $4.5 + n$

4. $n \times 16$

5. $36 - n$

6. $\frac{30}{n}$

7. $9n$

Find the quotient.

8. $720 \div 9$

9. $3,200 \div 8$

10. $30,000 \div 5$

Find the product.

1.
$$\begin{array}{r} 0.07 \\ \times 0.09 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 5.6 \\ \times 0.08 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 6.98 \\ \times 3.8 \\ \hline \end{array}$$

4. 4.23×10

5. 0.365×100

6. $0.004 \times 1,000$

Solve:

7. The principal of Mountain Middle School has a big glass jar of marbles. The empty jar weighs 40.5 ounces, and each of the 1,000 marbles weighs 1.25 ounces. Find the total weight in ounces of the marbles.
8. Mr. Dodd filled the gas tank on his lawn mower with 3.8 gallons of gas. If he mowed his yard 10 times on the same tank of gas, how much gas did he use each time the lawn was mowed?
9. Lucia scored an 8.65 on her first gymnastics event at a meet. If she scores the same score on each of four events, what will be her total score at the meet?

Vocabulary:

Choose the best term from the box.

difference	quotient
product	sum

1. The answer to a division problem is the _____.
2. The _____ of 5 and 7 is 12.
3. To find the _____ between 16 and 4 you subtract.
4. Multiplying is the same as finding the _____.

Find each answer.

5. $32 \div 4$

6. 35×100

7. $47 + 92$

8. $\frac{1}{2} + \frac{2}{4}$

9. $3.4 - 2.7$

10. $\$3.75 + \2.49

10. $8\frac{5}{8} - 1\frac{2}{8}$

12. $3 + \frac{1}{2}$

13. $\begin{array}{r} 692 \\ \times 414 \\ \hline \end{array}$

Find the distance between each pair of integers on a number line.

1. -6, -4

2. +1, +5

3. -2, +7

4. +3, +4

5. -2, 0

6. -5, +5

Name the ordered pairs. Let $x = 0, 2,$ and $4.$

7. $y = 6x$

8. $y = x + 3$

9. $y = x + 7$

10. $y = x - 0$

11. $y = 2x$

Divide:

1. $59 \sqrt{6,214}$

2. $19 \sqrt{4,657}$

3. $44 \sqrt{7,894}$

Find each product.

4. $\frac{2}{5} \times 35$

5. $\frac{8}{9} \times 18$

6. $32 \times \frac{1}{4}$

7. $12 \times \frac{2}{3}$

8. $\left(\frac{3}{4} - \frac{1}{4}\right) \times 24$

9. $\left(\frac{3}{5} - \frac{3}{10}\right) \times 30$

Solve:

10. Josh volunteered at the zoo for 14 hours in one month. This was $3\frac{1}{2}$ times as many hours as Gina volunteered. How many hours did Gina volunteer?

11. Brown bats sleep for 20 hours each day. How many hours per week are they awake? How many hours per year are they awake?

Vocabulary:

Choose the best term from the box.

divisor	quotient
hundredths	tenths

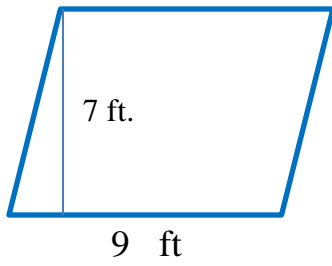
1. The number 2.45 has a four in the _____ place and a five in the _____ place.
2. In $36 \div 9 = 4$, the 4 is called the _____, and the 9 is called the _____.

Evaluate each expression for $n = 2$.

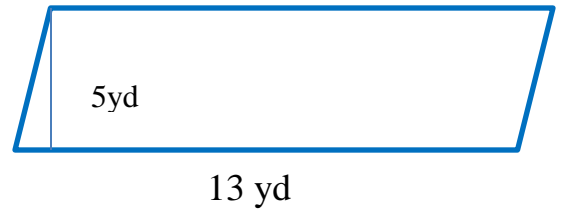
3. $148 + n$
4. $(n + 6) \div 4$
5. $\frac{70}{n}$
6. $51 \times n$
7. $(60 - n) \times 5$
8. $532 - n$

Find the area of each parallelogram.

1.



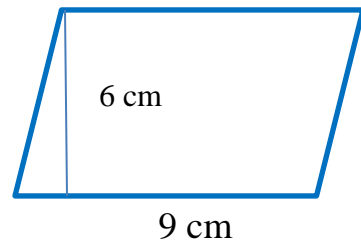
2.



3.

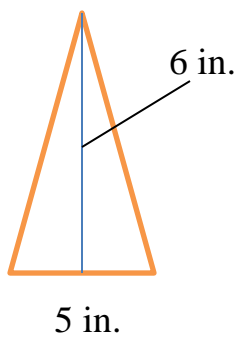


4.

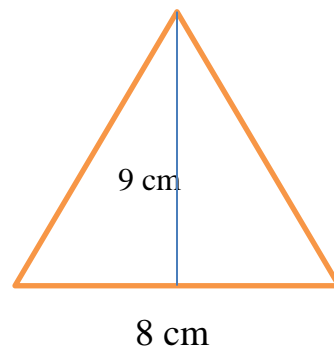


Find the area of each triangle.

5.



6.



Compare the numbers. Use $<$ or $>$ for each .

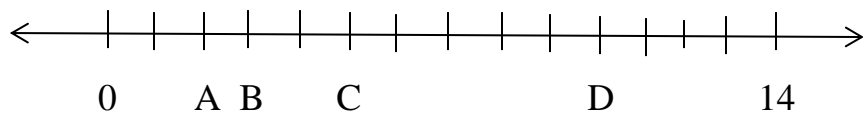
1. 512 521

2. 0.379 0.38

3. $\frac{3}{4}$ $\frac{1}{3}$

4. $2\frac{1}{5}$ $2\frac{1}{4}$

Write the number for each point.



5. $A =$

6. $B =$

7. $C =$

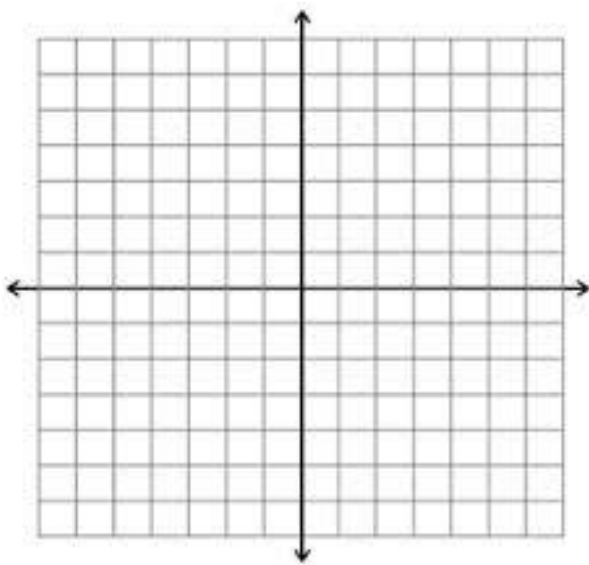
8. $D =$

Graph and label each point on the grid.

9. $H(2, 1)$

10. $F(4, -5)$

11. $G(-3, -4)$



Find the distance between points named by each set of ordered pairs on the coordinate plane.

1. $(4, -2), (4, 0)$

2. $(0, 1), (0, -5)$

3. $(3, -2), (3, -5)$

4. $(-1, 4), (-5, 4)$

Problem Solving

In two different surveys, students were asked to name their favorite type of movie. The results are shown in the table below.

Favorite Type of Movie

	Survey of 50 Students	Survey of 100 Students
Comedy	10	25
Animated	20	50
Adventure	20	25

5. In which survey did $\frac{1}{5}$ of the students pick comedy?

6. In which survey did $\frac{1}{2}$ or 50% of the students choose animated movies?

Find each sum. Simplify if necessary.

1. $\frac{2}{9} + \frac{2}{3}$

2. $\frac{5}{8} + \frac{1}{6}$

3. $\frac{3}{4} + \frac{2}{5}$

4. $\frac{1}{6} + \frac{3}{10}$

5. $\frac{7}{8} + \frac{1}{12}$

6. $\frac{11}{16} + \frac{1}{2}$

7. $\frac{1}{2} + \frac{1}{8} + \frac{1}{4}$

8. $\frac{1}{3} + \frac{5}{6} + \frac{4}{9}$

Solve.

9. Cindy added $\frac{7}{8}$ cup of water to $\frac{1}{4}$ cup of juice concentrate. How much juice did Cindy make?

10. Mr. Perez is building a fence. He wants to bolt together 2 boards. One is $\frac{3}{4}$ inches thick and the other is $\frac{7}{8}$ inches thick. What will be the total thickness of the 2 boards?

11. Ally bought 10 packages of string cheese. If each package costs \$1.59, how much did Ally spend?

Find each difference. Simplify if necessary.

1. $\frac{5}{8} - \frac{1}{4}$

2. $\frac{9}{16} - \frac{3}{8}$

3. $\frac{3}{4} - \frac{3}{8}$

4. $\frac{5}{6} - \frac{1}{3}$

5. $\frac{5}{8} - \frac{7}{12}$

6. $\frac{5}{12} - \frac{4}{16}$

Find each elapsed time.

7. 3:00 a.m. to 11:24 a.m.

8. 3:46 p.m. to 8:59 p.m.

9. 2:12 p.m. to 6:23 p.m.

10. 6:39 a.m. to 9:14 a.m.

Use the elapsed time to find the start time or the end time.

11. Start Time: 7:36 a.m. Elapsed Time: 3 h 10 min.

12. End Time: 7:55 p.m. Elapsed Time: 2 h 45 min.

13. Start Time: 1:45 p.m. Elapsed Time: 3 h 53 min.

14. End Time: 10:00 p.m. Elapsed Time: 1 h 47 min.