



Rising Fifth Grade

Summer Math



Rising Fifth Grade Summer Math

Let's Learn!

You can use the following steps to subtract. Look at the example. Remember to regroup.

$$\begin{array}{r} 1\ 14 \\ 47,524 \\ - 38,106 \\ \hline \end{array}$$

$$\begin{array}{r} 1\ 14 \\ 47,524 \\ - 38,106 \\ \hline \end{array}$$

$$\begin{array}{r} 1\ 14 \\ 47,524 \\ - 38,106 \\ \hline \end{array}$$

$$\begin{array}{r} 3\ 17\ 1\ 14 \\ \cancel{4}7,5\cancel{2}\cancel{4} \\ - 38,106 \\ \hline \end{array}$$

$$\begin{array}{r} 3\ 17\ 1\ 14 \\ \cancel{4}\cancel{7},5\cancel{2}\cancel{4} \\ - 38,106 \\ \hline \end{array}$$

So, $47,524 - 38,106 = 9,418$!

Subtract.

$$\begin{array}{r} 36,375 \\ - 12,642 \\ \hline \end{array}$$

$$\begin{array}{r} 52,905 \\ - 14,642 \\ \hline \end{array}$$

$$\begin{array}{r} 77,511 \\ - 32,415 \\ \hline \end{array}$$

$$\begin{array}{r} 63,242 \\ - 56,728 \\ \hline \end{array}$$

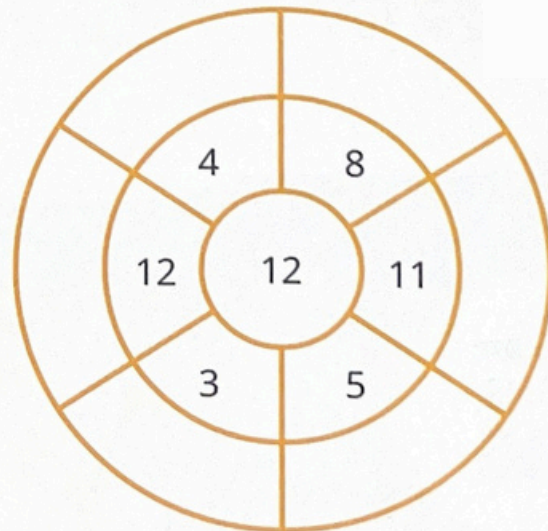
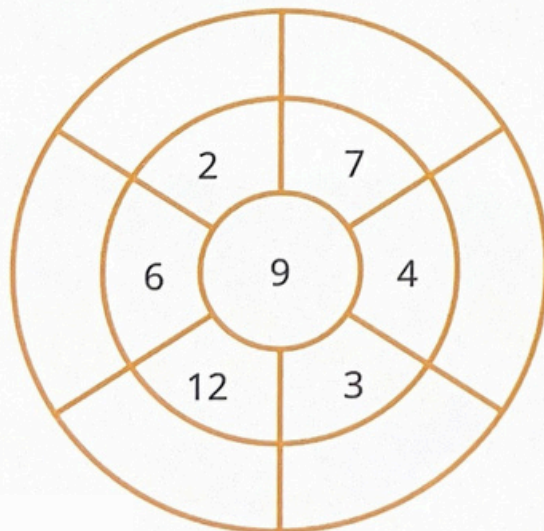
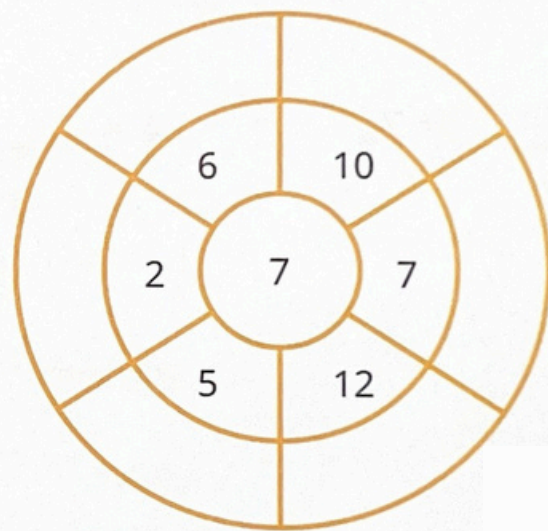
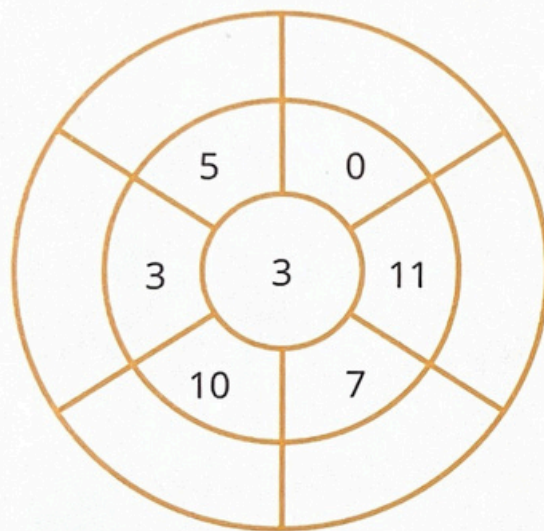
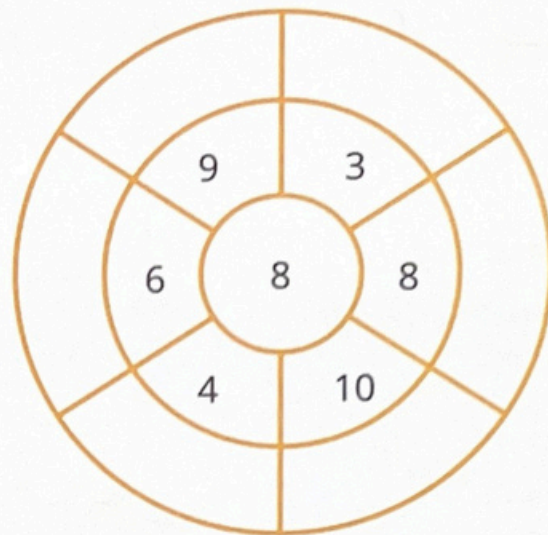
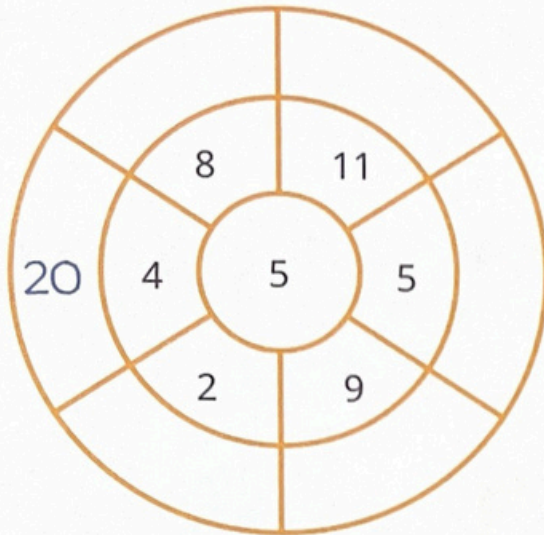
$$\begin{array}{r} 97,432 \\ - 28,871 \\ \hline \end{array}$$

$$\begin{array}{r} 86,672 \\ - 24,913 \\ \hline \end{array}$$



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Fill in the blanks. Multiply the two inner numbers to get the outer number.





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Multiply.

$$\begin{array}{r} 94 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 61 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 51 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 82 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 54 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 72 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 61 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 71 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 62 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 53 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 64 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 81 \\ \times 6 \\ \hline \end{array}$$



Let's Learn!

When you multiply multiples of 10, you can think of the problems like this:

$$70 \times 30$$

$$50 \times 60$$

$$70 \times 3 \text{ tens}$$

$$50 \times 6 \text{ tens}$$

$$210 \text{ tens}$$

$$300 \text{ tens}$$

$$2,100$$

$$3,000$$

Multiply.

$$20 \times 30 = \underline{600}$$

$$40 \times 60 = \underline{\hspace{2cm}}$$

$$80 \times 20 = \underline{\hspace{2cm}}$$

$$50 \times 70 = \underline{\hspace{2cm}}$$

$$30 \times 30 = \underline{\hspace{2cm}}$$

$$80 \times 60 = \underline{\hspace{2cm}}$$

$$80 \times 80 = \underline{\hspace{2cm}}$$

$$90 \times 60 = \underline{\hspace{2cm}}$$

$$40 \times 70 = \underline{\hspace{2cm}}$$

$$90 \times 40 = \underline{\hspace{2cm}}$$

$$80 \times 50 = \underline{\hspace{2cm}}$$

$$70 \times 90 = \underline{\hspace{2cm}}$$



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Answer each question.

The owner of Howie's Hamburger Wagon bought 18 packs of hamburger buns. There were 24 buns in each pack. How many hamburger buns did he buy?

Julie bought a photo book. It has 36 pages, and each page holds 16 photos. How many photos can the photo book hold?

Sam is helping his uncle store bags of horse feed in his stables. A bag of horse feed weighs 25 pounds. Sam's uncle bought 12 bags of horse feed. How many pounds of horse feed is that in all?

Madison's class took a field trip to the zoo. Each person's ticket cost \$18. If 21 people went on the field trip, what was the total cost of admission?

Summer Street Bakery uses 47 marshmallows in each of its famous s'mores cakes. How many marshmallows will the bakery need to complete an order for 32 s'mores cakes?



Divide.

$$4 \overline{)89}$$

$$3 \overline{)81}$$

$$2 \overline{)78}$$

$$3 \overline{)71}$$

$$5 \overline{)95}$$

$$8 \overline{)98}$$

$$6 \overline{)79}$$

$$7 \overline{)99}$$

$$4 \overline{)71}$$



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Let's Learn!

A number is **divisible** by another number if you can divide without getting a remainder. For example, think about the equation $32 \div 8 = 4$. Since there is no remainder, 32 is **divisible** by 8!

Circle the numbers that are divisible by 4. 14 28 44 49

Circle the numbers that are divisible by 6. 12 16 24 54

Circle the numbers that are divisible by 7. 17 23 28 42

Circle the numbers that are divisible by 9. 29 36 45 72

Circle the numbers that are divisible by 2. 546 251 722 863

Challenge yourself! Write a number that would make each statement true.

20 and 45 are both divisible by _____.

12 and 27 are both divisible by _____.

21 and 49 are both divisible by _____.



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Let's Learn!

Factors are numbers you multiply together to get another number.

For example, let's find the factors of 15. Think about all of the whole numbers you can multiply together to get 15.

$$1 \times 15 = 15$$

$$3 \times 5 = 15$$

So the factors of 15 are 1, 3, 5, and 15!

Write all of the factors of each number.

12: 1, 2, 3, 4, 6, 12

9: _____

13: _____

18: _____

24: _____

22: _____

20: _____

23: _____

27: _____

49: _____



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Let's Learn!

A **prime** number has only two factors, 1 and itself. For example, 13 is a prime number. Its only factors are 1 and 13.

A **composite** number is not prime. It has at least one factor other than 1 and itself. For example, 10 is a composite number. It has the factors 1, 2, 5, and 10.

The number 1 is neither prime nor composite.

Write all of the factors of each number. Then decide whether the number is prime or composite.

6: 1, 2, 3, 6

Prime

Composite

11: _____

Prime

Composite

4: _____

Prime

Composite

16: _____

Prime

Composite

19: _____

Prime

Composite

35: _____

Prime

Composite

23: _____

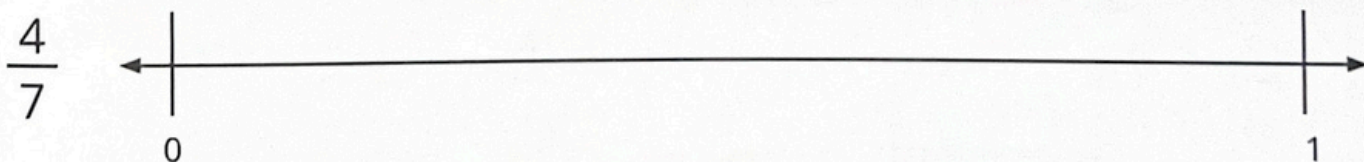
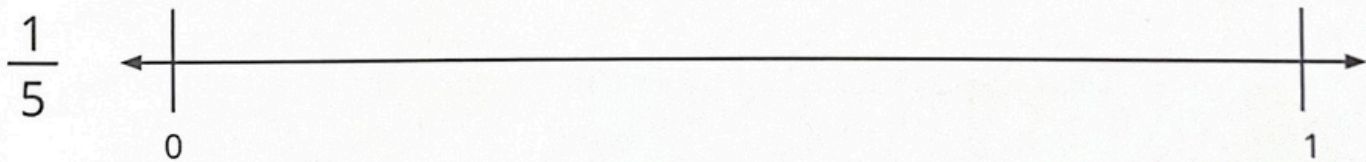
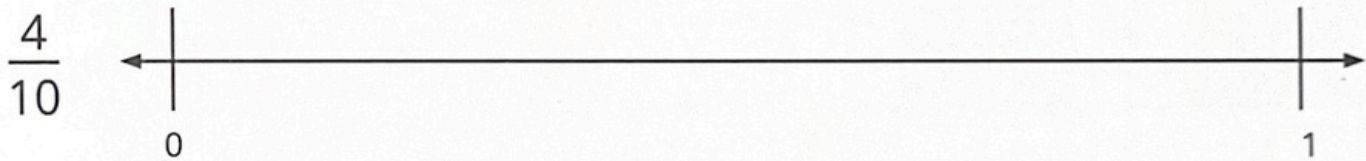
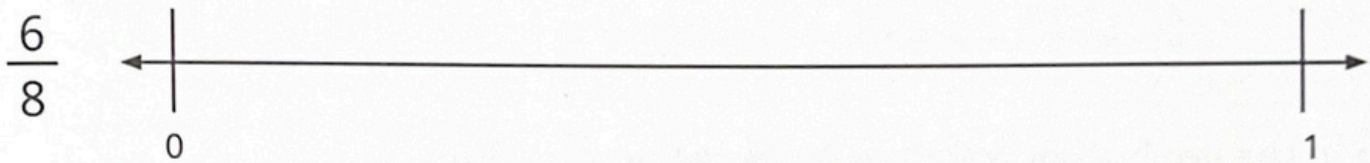
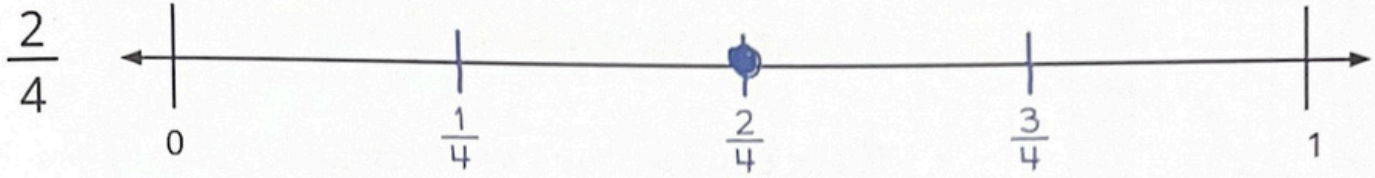
Prime

Composite



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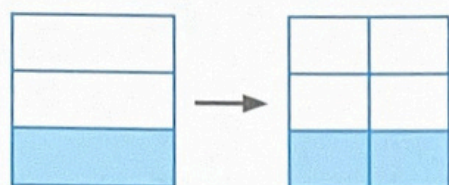
Show each fraction on the number line.





Let's Learn!

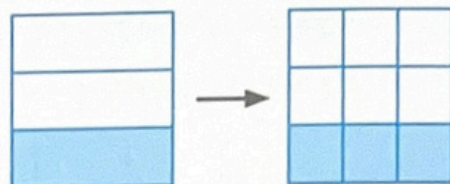
If you multiply the top and bottom of a fraction by the same number, you will get an equivalent fraction.



$\times 2$

$$\frac{1}{3} = \frac{2}{6}$$

$\times 2$



$\times 3$

$$\frac{1}{3} = \frac{3}{9}$$

$\times 3$

Make equivalent fractions.

$$\frac{4}{6} = \frac{8}{12}$$

$\times 2$

$$\frac{4}{5} = \frac{\boxed{}}{15}$$

$$\frac{3}{4} = \frac{\boxed{}}{8}$$

$$\frac{6}{8} = \frac{18}{\boxed{}}$$

$$\frac{1}{2} = \frac{\boxed{}}{16}$$

$$\frac{2}{3} = \frac{10}{\boxed{}}$$

$$\frac{3}{5} = \frac{\boxed{}}{20}$$

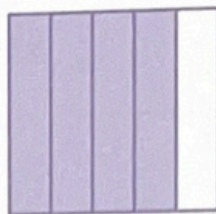
$$\frac{2}{6} = \frac{6}{\boxed{}}$$

$$\frac{1}{3} = \frac{\boxed{}}{21}$$



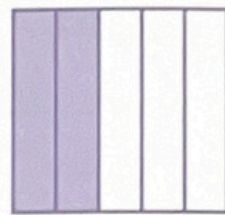
Let's Learn!

When two fractions have the same denominator, they have the same number of total parts. You can compare the numerators to see which fraction is bigger.



$$\frac{4}{5}$$

>



$$\frac{2}{5}$$

Compare each pair of fractions. Fill in each circle with $>$, $<$, or $=$.

$$\frac{3}{4} \bigcirc \frac{2}{4}$$

$$\frac{1}{3} \bigcirc \frac{2}{3}$$

$$\frac{5}{6} \bigcirc \frac{4}{6}$$

$$\frac{7}{12} \bigcirc \frac{6}{12}$$

$$\frac{5}{8} \bigcirc \frac{3}{8}$$

$$\frac{8}{9} \bigcirc \frac{8}{9}$$

$$\frac{4}{10} \bigcirc \frac{8}{10}$$

$$\frac{1}{7} \bigcirc \frac{3}{7}$$



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Write the fractions in order from least to greatest.

$$\frac{2}{3} \quad \frac{1}{5} \quad \frac{1}{3} \quad \frac{1}{5} \quad \frac{1}{3} \quad \frac{2}{3}$$

$$\frac{6}{10} \quad \frac{4}{5} \quad \frac{4}{10}$$

$$\frac{5}{6} \quad \frac{2}{5} \quad \frac{2}{12}$$

$$\frac{2}{5} \quad \frac{3}{10} \quad \frac{1}{4}$$

$$\frac{3}{4} \quad \frac{2}{3} \quad \frac{5}{6}$$

Challenge yourself! Write the fractions in order from least to greatest.

$$\frac{3}{4} \quad \frac{5}{8} \quad \frac{1}{2} \quad \frac{4}{12}$$

$$\frac{2}{3} \quad \frac{5}{12} \quad \frac{2}{6} \quad \frac{1}{4}$$



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Add or subtract.

$$\frac{2}{6} + \frac{3}{6} = \underline{\hspace{2cm}}$$

$$\frac{7}{8} - \frac{4}{8} = \underline{\hspace{2cm}}$$

$$\frac{4}{5} - \frac{2}{5} = \underline{\hspace{2cm}}$$

$$\frac{3}{7} + \frac{1}{7} = \underline{\hspace{2cm}}$$

$$\frac{5}{6} - \frac{3}{6} = \underline{\hspace{2cm}}$$

$$\frac{9}{10} - \frac{2}{10} = \underline{\hspace{2cm}}$$

$$\frac{2}{9} + \frac{4}{9} = \underline{\hspace{2cm}}$$

$$\frac{2}{11} + \frac{6}{11} = \underline{\hspace{2cm}}$$

$$\frac{5}{7} - \frac{3}{7} = \underline{\hspace{2cm}}$$

$$\frac{3}{8} + \frac{3}{8} = \underline{\hspace{2cm}}$$

$$\frac{5}{10} + \frac{3}{10} = \underline{\hspace{2cm}}$$

$$\frac{9}{12} - \frac{5}{12} = \underline{\hspace{2cm}}$$



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Answer each question.

Joseph bought a quart of vanilla ice cream. He used $\frac{3}{8}$ of a quart for a sundae. He then used $\frac{1}{8}$ of a quart for a root beer float. How much more ice cream did Joseph use in the sundae than in the root beer float?

Zoey is at a hot-air balloon festival with her family. She notices that $\frac{4}{12}$ of the balloons are yellow and $\frac{3}{12}$ of the balloons are green. What fraction of the hot-air balloons are yellow or green?

Mona shared a large pizza with her brother. Mona ate $\frac{2}{8}$ of the pizza, and her brother ate $\frac{3}{8}$ of the pizza. What fraction of the pizza did they eat altogether?

Juan and his brother are using cornstarch in two science experiments. They use $\frac{2}{4}$ of a cup of cornstarch to make an exploding volcano. Then they use $\frac{1}{4}$ of a cup of cornstarch to make magic ooze. What fraction of a cup do they use in all?

At the beginning of the month, Camille's bottle of scented lotion was $\frac{4}{5}$ full. By the end of the month, it was $\frac{2}{5}$ full. What fraction of the bottle did Camille use this month?



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Write each improper fraction as a mixed number or a whole number.

$$\frac{11}{3} = 3\frac{2}{3}$$

$$\frac{7}{4} = \underline{\hspace{2cm}}$$

$$\frac{14}{6} = \underline{\hspace{2cm}}$$

$$\frac{27}{9} = \underline{\hspace{2cm}}$$

$$\frac{17}{12} = \underline{\hspace{2cm}}$$

$$\frac{25}{8} = \underline{\hspace{2cm}}$$

Write each mixed number as an improper fraction.

$$2\frac{2}{5} = \frac{12}{5}$$

$$2\frac{3}{8} = \underline{\hspace{2cm}}$$

$$4\frac{1}{2} = \underline{\hspace{2cm}}$$

$$2\frac{3}{7} = \underline{\hspace{2cm}}$$

$$3\frac{3}{10} = \underline{\hspace{2cm}}$$

$$3\frac{5}{11} = \underline{\hspace{2cm}}$$



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Add.

$$9\frac{1}{4} + 4\frac{1}{4} = \underline{\hspace{2cm}}$$

$$11\frac{3}{7} + 7\frac{1}{7} = \underline{\hspace{2cm}}$$

$$8\frac{1}{5} + 8\frac{1}{5} = \underline{\hspace{2cm}}$$

$$14\frac{3}{8} + 12\frac{2}{8} = \underline{\hspace{2cm}}$$

$$8\frac{2}{9} + 12\frac{5}{9} = \underline{\hspace{2cm}}$$

$$22\frac{2}{6} + 6\frac{2}{6} = \underline{\hspace{2cm}}$$

$$27\frac{3}{10} + 10\frac{5}{10} = \underline{\hspace{2cm}}$$

$$9\frac{2}{12} + 16\frac{7}{12} = \underline{\hspace{2cm}}$$

$$24\frac{5}{11} + 19\frac{5}{11} = \underline{\hspace{2cm}}$$

$$13\frac{3}{8} + 18\frac{1}{8} = \underline{\hspace{2cm}}$$



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Subtract.

$$16\frac{3}{5} - 3\frac{2}{5} = \underline{\hspace{2cm}}$$

$$10\frac{3}{8} - 7\frac{1}{8} = \underline{\hspace{2cm}}$$

$$12\frac{3}{4} - 6\frac{1}{4} = \underline{\hspace{2cm}}$$

$$18\frac{5}{6} - 10\frac{5}{6} = \underline{\hspace{2cm}}$$

$$17\frac{5}{12} - 6\frac{3}{12} = \underline{\hspace{2cm}}$$

$$19\frac{8}{9} - 12\frac{6}{9} = \underline{\hspace{2cm}}$$

$$21\frac{4}{5} - 13\frac{1}{5} = \underline{\hspace{2cm}}$$

$$20\frac{5}{7} - 15\frac{3}{7} = \underline{\hspace{2cm}}$$

$$27\frac{9}{12} - 8\frac{7}{12} = \underline{\hspace{2cm}}$$

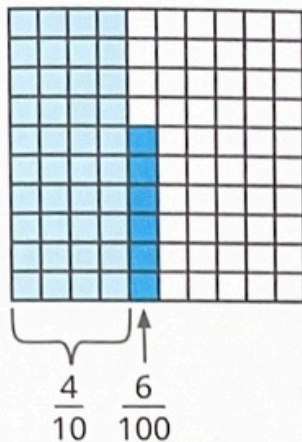
$$15\frac{5}{8} - 14\frac{4}{8} = \underline{\hspace{2cm}}$$



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Let's Learn!

Decimals represent parts of wholes, just like fractions! You can use a place value chart to write the decimal. Try it for $\frac{46}{100}$. It is made up of 4 tenths and 6 hundredths.



Ones		Tenths	Hundredths
0	.	4	6

Write each fraction as a decimal.

$$\frac{3}{10} = \underline{0.3}$$

$$\frac{8}{10} = \underline{\hspace{2cm}}$$

$$\frac{96}{100} = \underline{\hspace{2cm}}$$

$$\frac{4}{10} = \underline{\hspace{2cm}}$$

$$\frac{25}{100} = \underline{\hspace{2cm}}$$

$$\frac{6}{10} = \underline{\hspace{2cm}}$$

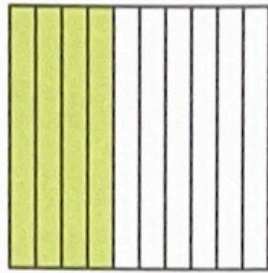
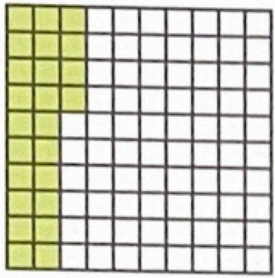
$$\frac{48}{100} = \underline{\hspace{2cm}}$$

$$\frac{9}{100} = \underline{\hspace{2cm}}$$

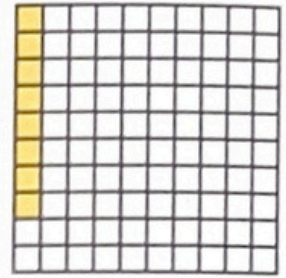
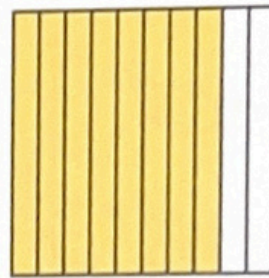


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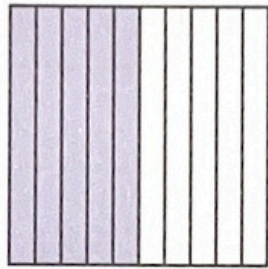
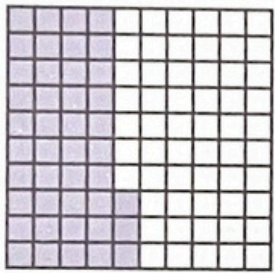
Compare each pair of decimals. Fill in each circle with $>$, $<$, or $=$.



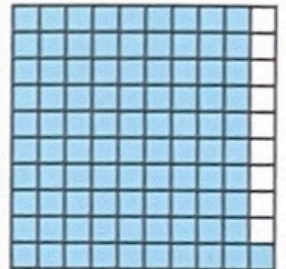
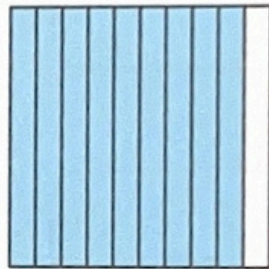
0.24 $<$ 0.4



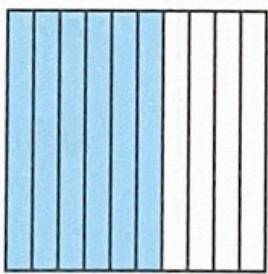
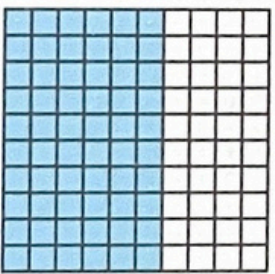
0.8 $>$ 0.08



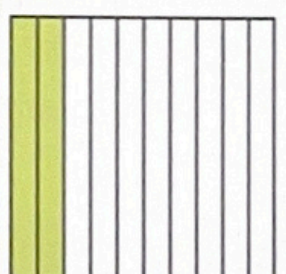
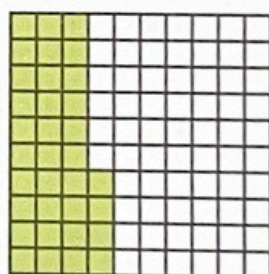
0.43 $<$ 0.5



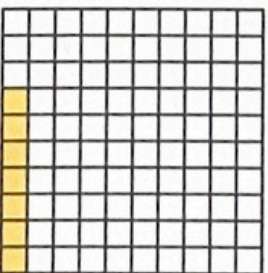
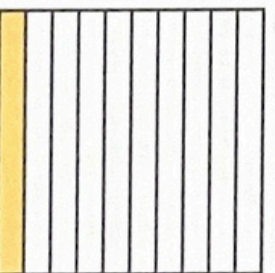
0.9 $<$ 0.91



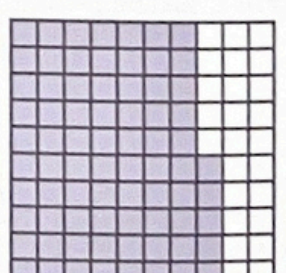
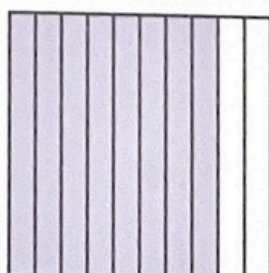
0.60 $=$ 0.6



0.34 $>$ 0.2



0.1 $>$ 0.07



0.8 $>$ 0.75



Rising Fifth Grade Summer Math

Complete each table. Multiply to convert the first unit to the second unit.

There are 1,000 milliliters in a liter.

Liters	Milliliters
1	
2	
3	
4	
5	

There are 10 millimeters in a centimeter.

Centimeters	Millimeters
1	
2	
3	
4	
5	

There are 100 centimeters in a meter.

Meters	Centimeters
1	
2	
3	
4	
5	

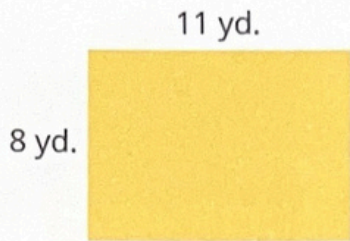
There are 1,000 grams in a kilogram.

Kilograms	Grams
1	
2	
3	
4	
5	

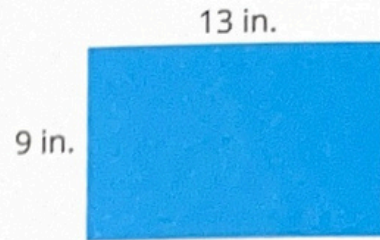


Rising Fifth Grade Summer Math

Multiply to find the area of each rectangle. If your answer is a fraction that is greater than 1, write it as a mixed number.



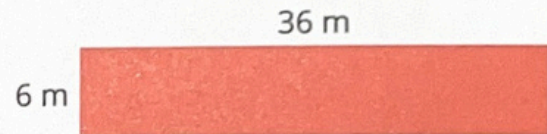
Area = 88 SQUARE YD.



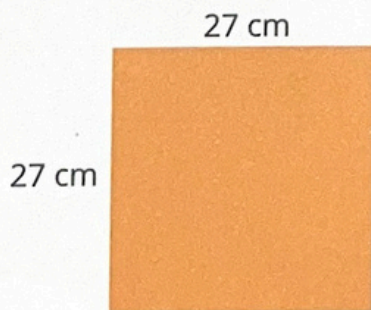
Area = _____



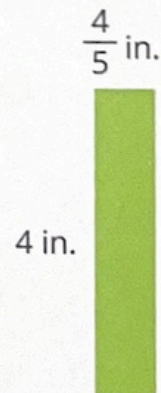
Area = _____



Area = _____



Area = _____

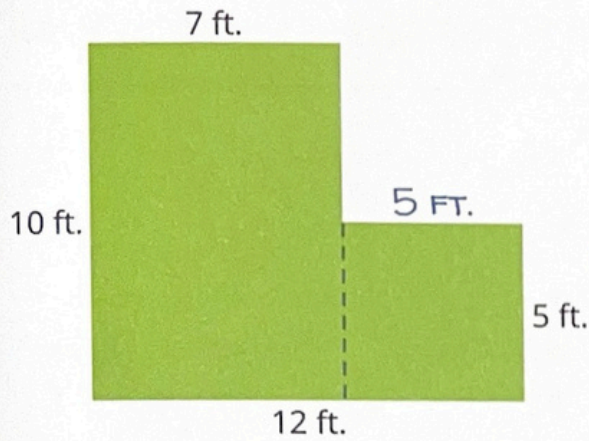


Area = _____



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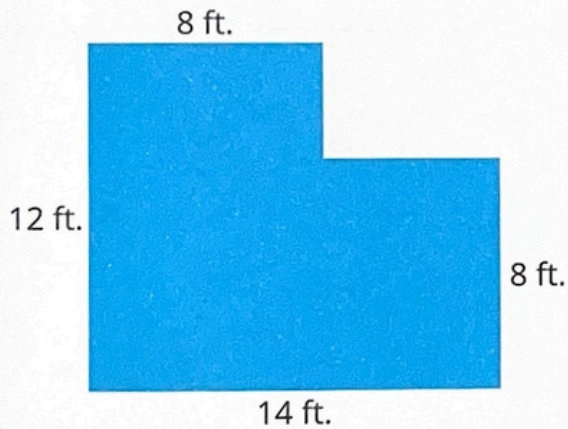
Find the area of each shape.



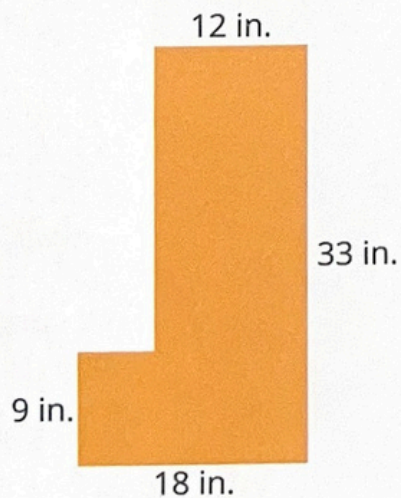
$$\underline{70} + \underline{25} = \underline{95 \text{ SQUARE FT.}}$$

$$10 \times 7 = 70$$

$$5 \times 5 = 25$$



$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$



$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$



Rising Fifth Grade Summer Math

Write the measure of each angle.

