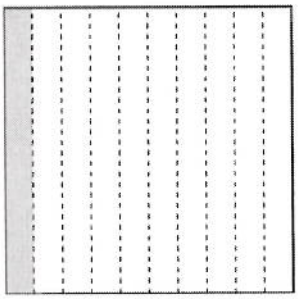
Name _____ Date _____ Time _____

Renaming Fractions as Decimals

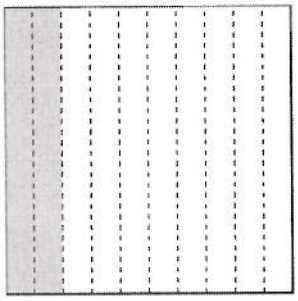
Whole

large square



$\frac{1}{10}$, or 0.1

1.

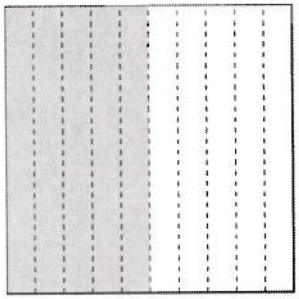


$\frac{2}{10}$ of the square is shaded.

How many tenths? _____

$\frac{2}{10} = 0.$_____

2.

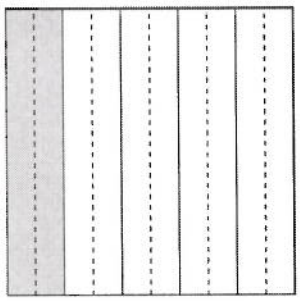


$\frac{1}{2}$ is shaded.

How many tenths? _____

$\frac{1}{2} = \frac{\square}{10} = 0.$_____

3.

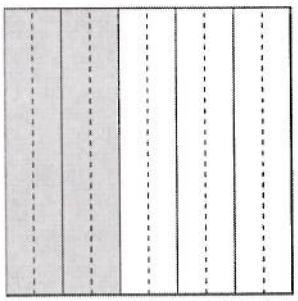


$\frac{1}{5}$ is shaded.

How many tenths? _____

$\frac{1}{5} = \frac{\square}{10} = 0.$_____

4.



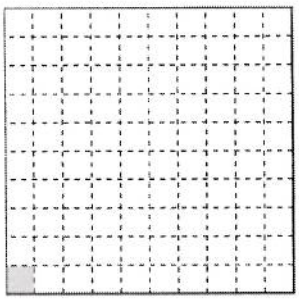
$\frac{2}{5}$ is shaded.

How many tenths? _____

$\frac{2}{5} = \frac{\square}{10} = 0.$_____

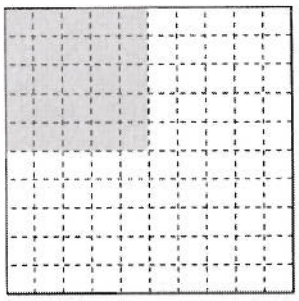
5. $\frac{3}{5} = \frac{\square}{10} = 0.$_____

6. $\frac{4}{5} = \frac{\square}{10} = 0.$_____



$\frac{1}{100}$, or 0.01

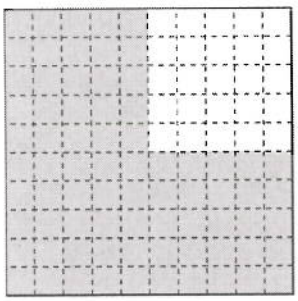
7.



$\frac{1}{4}$ is shaded.

$\frac{1}{4} = \frac{\square}{100} = 0.$_____

8.



$\frac{3}{4}$ is shaded.

$\frac{3}{4} = \frac{\square}{100} = 0.$_____

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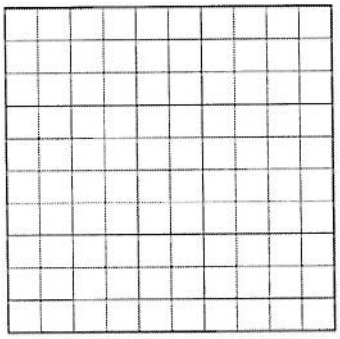
Renaming Fractions as Percents

Fractions and percents can be modeled with base-10 blocks. Build each fraction with base-10 blocks. Shade the grid and fill in the missing numbers.

Example: 

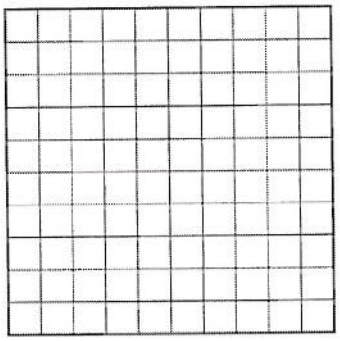
$\frac{47}{100}$ = 47 out of 100 = 47%

1.



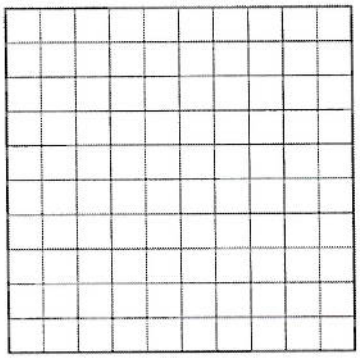
$\frac{33}{100}$ = _____ out of 100 = _____%

2.



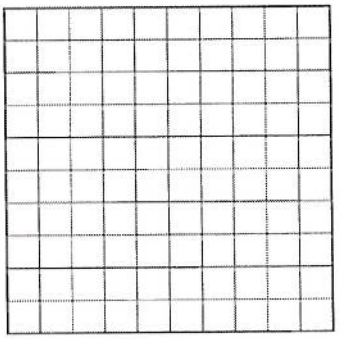
$\frac{67}{100}$ = _____ out of 100 = _____%

3.



$\frac{8}{100}$ = _____ out of 100 = _____%

4. Create your own.



$\frac{\square}{100}$ = _____ out of 100 = _____%

Name Date Time

Using Division to Rename Fractions as Decimals and Percents

Fill in the table. You may use a calculator. Study the first problem.

Fraction	Decimal (Quotient)	Percent	Percent (to the nearest whole)
$\frac{1}{9}$	0.1111111111	11.11111111%	11%
$\frac{2}{3}$			
$\frac{3}{7}$			
$\frac{5}{9}$			
$\frac{7}{1}$			
$\frac{7}{8}$			
$\frac{1}{3}$			
$\frac{5}{7}$			
$\frac{5}{6}$			
$\frac{1}{12}$			
$\frac{3}{13}$			

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Converting between Decimals and Percents

Fill in the blanks.

1. $0.36 = \frac{0.36 * 100}{100} = \frac{36}{100} = 36\%$

2. $0.7 = \frac{0.7 * 100}{100} = \frac{\square}{100} = \_\_\_\_\_\%$

3. $0.09 = \frac{0.09 * 100}{100} = \frac{\square}{100} = \_\_\_\_\_\%$

4. $4.602 = \frac{4.602 * 100}{100} = \frac{\square}{100} = \_\_\_\_\_\%$

Rename each decimal as a percent.

5. 0.53 = _____

6. 0.06 = _____

7. 2.7 = _____

8. 8.61 = _____

Rename each percent as a decimal.

9. 42% = _____

10. 2% = _____

11. 316% = _____

12. 1,410% = _____

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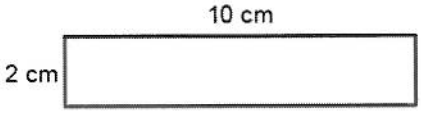
Comparing Rectangles with the Same Areas and Different Perimeters

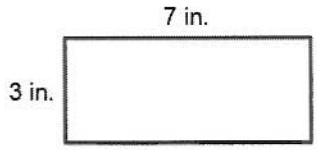
1. Draw and label another rectangle that has the same area as the one below, but has a different perimeter.



Perimeter = _____ (unit) Perimeter = _____ (unit)

Area = _____ (unit) Area = _____ (unit)

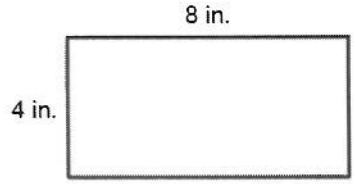
2. Draw and label another rectangle that has the same area as the one below, but has a different perimeter.



Perimeter = _____ (unit) Perimeter = _____ (unit)

Area = _____ (unit) Area = _____ (unit)

3. Draw and label another rectangle that has the same area as the one below, but has a different perimeter.



Perimeter = _____ (unit) Perimeter = _____ (unit)

Area = _____ (unit) Area = _____ (unit)

Name: _____ Date: _____ Time: _____

Finding Area Formulas for Triangles and Parallelograms

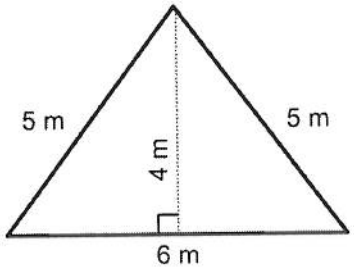
1. Fill in the missing factors.

a. $5 \times$ _____ $= 15$

b. $7 \times$ _____ $= 14$

c. $6 \times$ _____ $= 60$

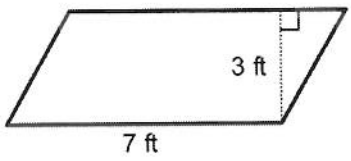
2. Find the area of the triangle.



Number model: _____

Area: _____ m^2

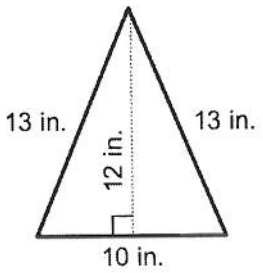
3. Find the area of the parallelogram.



Number model: _____

Area: _____ ft^2

4. Find the area of the triangle.



Number model: _____

Area: _____ in^2

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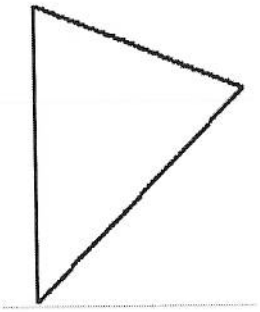
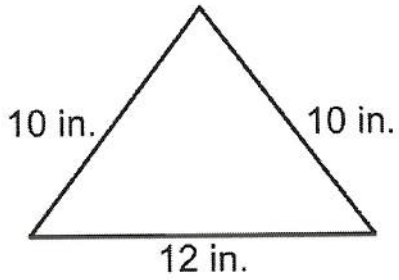
Finding Perimeters of Straw Triangles

1. Measure the perimeter of the triangle in centimeters.



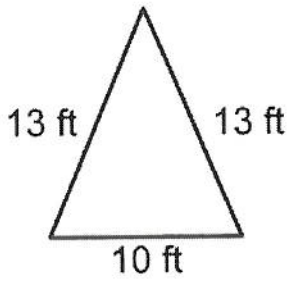
Perimeter = _____ cm

2. Find the perimeter of the triangle.



Perimeter = _____ in.

3. Find the perimeter of the triangle.



Perimeter = _____ ft

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Using Parentheses to Make Number Sentences True

Insert parentheses to make each number sentence true.

Example:

$2 * (8 + 5) = 26$

1. **a.** $5 + 7 * 6 = 47$ **b.** $5 + 7 * 6 = 72$

2. **a.** $6 + 4 * 8 = 38$ **b.** $6 + 4 * 8 = 80$

3. **a.** $14 - 10 + 3 = 7$ **b.** $14 - 10 + 3 = 1$

4. **a.** $28 - 7 * 3 = 63$ **b.** $28 - 7 * 3 = 7$

5. **a.** $20 - 15 - 3 = 8$ **b.** $20 - 15 - 3 = 2$

6. **a.** $3 * 4 + 12 = 48$ **b.** $3 * 4 + 12 = 24$

7. **a.** $5 + 8 * 2 = 26$ **b.** $5 + 8 * 2 = 21$

8. **a.** $60 \div 12 - 2 = 6$ **b.** $60 \div 12 - 2 = 3$

9. **a.** $11 * 5 - 1 = 44$ **b.** $11 * 5 - 1 = 54$